

A Photometric Catalogue of Southern Emission-Line Stars [★]

D. de Winter^{1,2,3}, M.E. van den Ancker⁴, A. Maira¹, P.S. Thé⁵, H.R.E. Tjin A Djie⁵, I. Redondo¹, C. Eiroa¹, and F.J. Molster^{5,6}

¹ Dpto. Física Teórica, C-XI, Universidad Autónoma de Madrid, Cantoblanco, 28049 Madrid, Spain

² Instituto de Astrofísica de Canarias, C/ Via Láctea s/n, 38200 La Laguna, Tenerife, Spain

³ TNO TPD, Stieltjesweg 1, P.O. Box 155, 2600 AD Delft, The Netherlands

⁴ Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, MS 78, Cambridge MA 02138, USA

⁵ Astronomical Institute, University of Amsterdam, Kruislaan 403, 1098 SJ Amsterdam, The Netherlands

⁶ School of Materials Science and Engineering, Georgia Tech, Atlanta GA 30332-0245, USA

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Abstract. We present a catalogue of previously unpublished optical and infrared photometry for a sample of 162 emission-line objects and shell stars visible from the southern hemisphere. The data were obtained between 1978 and 1997 in the Walraven (*WULBV*), Johnson/Cousins (*UBV(RI)_c*) and ESO and SAAO near-infrared (*JHKLM*) photometric systems. Most of the observed objects are Herbig Ae/Be (HAeBe) stars or HAeBe candidates appearing in the list of HAeBe candidates of Thé et al. (1994), although several B[e] stars, LBVs and T Tauri are also included in our sample. For many of the stars the data presented here are the first photo-electric measurements in the literature. The resulting catalogue consists of 1809 photometric measurements. Optical variability was detected in 66 out of the 116 sources that were observed more than once. 15 out of the 50 stars observed multiple times in the infrared showed variability at 2.2 μm (*K* band).

Key words. Circumstellar matter – Stars: emission-line – Stars: pre-main sequence – Infrared: Stars

1. Introduction

One of the classic characteristics of a young star is the presence of photometric variability. Several types of photometric variability can be recognized, amongst which are more or less periodic variability due to magnetic activity on the stellar surface (star spots), brightness variations due to a variable rate of accretion, and irregular large-amplitude ($> 0^{\text{m}}.5$) variations due to variable circumstellar extinction (Bibo & Thé 1991; Shevchenko et al. 1993; Herbst et al. 1994; van den Ancker et al. 1998; Herbst & Shevchenko 1999). However, a detailed analysis of a star's photometric behaviour requires great amounts of data, preferably over a large period of time. In practice, sufficient data can often only be obtained by combining data sets from the literature with new data.

Herbig Ae/Be (HAeBe) stars may be one of the most interesting groups of young stars to study since they are intrinsically bright and therefore can be seen over great distances, tracing galactic regions of star formation. Furthermore, many are sufficiently bright to be observed with smaller telescopes, allowing detailed studies of their photometric behaviour to be made. A catalogue of 287 candidate members of the Herbig Ae/Be stellar group was published by Thé et al. (1994). For many of the objects in this catalogue little or no data is available and therefore a new investigation of their properties is in order.

In this *paper* we present photometry of 162 emission-line and shell stars, most of which appear in the list of HAeBe candidates by Thé et al. Names, positions and classifications of the stars are listed in Table 1. Section 2 gives a detailed description of the observations. Although a brief discussion of the data is presented in Section 3, we defer a detailed analysis of these data to future papers in which these data can be combined with photometry over a much longer time span.

2. Observations

Photometric data in the Walraven *WULBV* system of our programme stars were obtained between 1978 and

Send offprint requests to: Dolf de Winter (dolf@xiada.ft.uam.es)

[★] Based on observations collected at the European Southern Observatory, La Silla, Chile and on observations collected at the South African Astronomical Observatory. Tables 2–4 are only available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via [http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A+A/\(vol\)/\(page\)](http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A+A/(vol)/(page)).

Table 1. Properties of programme stars

| Name | Cat. Des. | Other | α (2000) | | | δ (2000) | Type | # Observations | | | | V_{obs} [mag] | V_{lit} [mag] | Ref. |
|------------------|------------|-----------------|-----------------|---|---|-----------------|------|----------------|-------|-------|--|---------------------------|---------------------------|------|
| | | | h | m | s | ° | ' | WULBV | UBVRI | JHKLM | | | | |
| 71 Cet | HD 15004 | | 02 24 58.4 | | | −02 46 48 | A-sh | 2 | — | — | | 6.34–6.65 | 6.31–6.36 | (1) |
| BU Tau | HD 23862 | MWC 75 | 03 49 11.2 | | | +24 08 12 | Be | 1 | — | — | | 5.08 | 5.01–5.07 | (1) |
| V1080 Tau | HD 283817 | StH α 33 | 04 40 32.6 | | | +24 26 31 | HAe | 2 | 3 | — | | 10.10–11.68 | 10.29–10.56 | (2) |
| AB Aur | HD 31293 | MWC 93 | 04 55 45.8 | | | +30 33 04 | HAe | 1 | 2 | — | | 7.02–7.04 | 7.03–7.13 | (1) |
| | HD 31648 | MWC 480 | 04 58 46.3 | | | +29 50 37 | HAe | 2 | 3 | — | | 7.68–7.72 | 7.66–7.86 | (1) |
| UX Ori | HD 293782 | | 05 04 30.0 | | | −03 47 14 | HAe | 29 | 13 | 12 | | 9.84–11.79 | 9.66–11.79 | (3) |
| V1012 Ori | | | 05 11 36.4 | | | −02 22 47 | HAe | — | 6 | — | | 12.07–13.12 | 12.5–16.5pg | (2) |
| S22/LMC | HD 34664 | MWC 105 | 05 13 53.1 | | | −67 26 54 | B[e] | — | 3 | — | | 11.77–12.65 | | |
| V1366 Ori | HD 34282 | | 05 16 00.5 | | | −09 48 35 | HAe | — | 3 | — | | 9.81–9.94 | | |
| V346 Ori | HD 287841 | | 05 24 42.8 | | | +01 43 48 | HAe | 22 | 6 | 3 | | 10.09–10.84 | 10.17–10.38 | (3) |
| CO Ori | BD+11 809 | | 05 27 38.3 | | | +11 25 39 | HFe | — | 3 | — | | 11.25–11.70 | 9.81–12.52 | (4) |
| | HD 35929 | | 05 27 42.8 | | | −08 19 38 | HFe | — | 5 | 1 | | 8.11–8.31 | | |
| Par 102 | BD−06 1193 | StH α 41 | 05 29 11.4 | | | −06 08 05 | HFe | — | 8 | 3 | | 10.43–10.54 | | |
| | BD+11 820 | | 05 29 22.1 | | | +11 50 50 | HAe? | — | 1 | — | | 10.84 | | |
| | HD 36112 | MWC 758 | 05 30 27.5 | | | +25 19 57 | HAe | — | 2 | — | | 8.26–8.27 | 8.20–8.44 | (1) |
| HK Ori | | MWC 497 | 05 31 28.0 | | | +12 09 11 | HFe | 23 | 5 | 3 | | 11.41–11.67 | 11.39–12.10 | (4) |
| | HD 244604 | | 05 31 57.3 | | | +11 17 41 | HAe | — | 3 | — | | 8.99–9.38 | 9.18–9.71 | (1) |
| RY Ori | | | 05 32 10.0 | | | −02 49 49 | HFe | 8 | 4 | 3 | | 11.57–12.68 | 11.08–12.96 | (3) |
| EZ Ori | | Par 1409 | 05 34 18.6 | | | −05 04 48 | TT | — | 1 | — | | 12.87 | 12.0–14.1pg | (2) |
| IX Ori | | Par 1552 | 05 34 40.8 | | | −05 22 43 | TT | — | 4 | 1 | | 12.33–13.26 | 13.4–15.5pg | (2) |
| V372 Ori | HD 36917 | Par 1605 | 05 34 47.0 | | | −05 34 15 | A-sh | 10 | 3 | 3 | | 7.98–8.00 | 7.98–8.03 | (3) |
| YZ Ori | | Par 1648 | 05 34 54: | | | −05 03 30: | TT | — | 4 | 1 | | 13.74–14.85 | 13.9–16.6pg | (2) |
| Par 1660 | HD 36939 | | 05 34 55.3 | | | −05 30 22 | HBe? | 9 | 3 | 3 | | 8.97–9.00 | 8.98–9.02 | (3) |
| Par 1623 | BD−05 1306 | | 05 34 55.6 | | | −05 16 43 | A-sh | 10 | 2 | 2 | | 10.13–10.19 | | |
| KS Ori | | Par 1685 | 05 35 00.1 | | | −05 25 16 | A-sh | 10 | 2 | 1 | | 10.05–10.12 | 9.7–12.0pg | (2) |
| V1271 Ori | HD 245185 | | 05 35 09.6 | | | +10 01 52 | HAe | — | 6 | — | | 9.91–9.98 | 9.85–9.95 | (3) |
| MR Ori | | | 05 35 17.0 | | | −05 21 46 | A-sh | — | 3 | — | | 9.54–10.85 | 10.3–12.0 | (2) |
| LZ Ori | HD 294263 | Par 1854 | 05 35 17.8 | | | −04 41 07 | A-sh | 20 | 1 | 3 | | 9.73–10.09 | 10.3–11.1pg | (2) |
| MX Ori | BD−05 1317 | Par 1953 | 05 35 21.3 | | | −05 09 16 | HFe | — | 1 | — | | 9.31 | 10.3–11.7pg | (2) |
| NV Ori | BD−05 1324 | Par 2086 | 05 35 31.3 | | | −05 33 09 | HFe | 6 | — | 2 | | 9.63–9.90 | 9.78–10.35 | (3) |
| V361 Ori | HD 37062 | Par 2085 | 05 35 31.4 | | | −05 25 16 | B-sh | 9 | 1 | 3 | | 8.15–8.20 | 8.14–8.24 | (3) |
| T Ori | BD−05 1329 | MWC 763 | 05 35 50.4 | | | −05 28 35 | HAe | 25 | 10 | 7 | | 10.15–11.04 | 10.00–11.95 | (3) |
| CQ Tau | HD 36910 | | 05 35 58.5 | | | +24 44 54 | HFe | 1 | 4 | — | | 10.22–11.06 | 9.36–11.14 | (3) |
| V380 Ori | BD−06 1253 | MWC 765 | 05 36 25.4 | | | −06 42 58 | HAe | 25 | 12 | 7 | | 10.21–10.73 | 9.46–11.22 | (4) |
| BN Ori | HD 245465 | | 05 36 29.3 | | | +06 50 02 | A-sh | 11 | 3 | 2 | | 9.62–9.68 | 9.56–9.71 | (5) |
| Par 2441 | BD−04 1191 | | 05 36 51.2 | | | −04 25 40 | TT | — | 1 | — | | 10.74 | | |
| V586 Ori | HD 37258 | Par 2473 | 05 36 59.3 | | | −06 09 16 | HAe | 24 | 8 | 3 | | 9.64–10.08 | 9.53–10.77 | (3) |
| BF Ori | BD−06 1259 | | 05 37 13.3 | | | −06 35 01 | HAe | 25 | 14 | 9 | | 9.82–11.67 | 9.59–11.92 | (3) |
| Par 2599 | HD 37357 | KMS 27 | 05 37 47.1 | | | −06 42 30 | HAe | — | 7 | 2 | | 8.83–8.84 | 8.83–8.91 | (4) |
| N3Sk81 | | KMS 34 | 05 38 08.8 | | | −06 49 13 | HAe | — | 6 | 1 | | 13.75–13.84 | | |
| Par 2653 | HD 37411 | | 05 38 14.5 | | | −05 25 13 | HAe | 2 | 10 | 1 | | 9.76–9.85 | 9.79–9.81 | (4) |
| | CD−59 1105 | | 05 38 33.0 | | | −59 04 28 | Fe | — | 1 | — | | 9.74 | | |
| N3Sk83 | =V883 Ori? | KMS 40 | 05 38 18.1 | | | −07 02 26 | HBe | — | 1 | 1 | | 14.4 | | |
| V599 Ori | | KMS 49 | 05 38 54.4 | | | −07 16 38 | HAe | — | 2 | 1 | | 13.76–13.80 | 15.1–16.3pg | (2) |
| ω Ori | HD 37490 | MWC 117 | 05 39 11.1 | | | +04 07 17 | Be | — | 3 | — | | 4.48–4.56 | 4.49–4.55 | (1) |
| V350 Ori | | | 05 40 11.6 | | | −09 42 10 | HAe | 4 | 16 | 3 | | 10.77–13.32 | 10.71–13.24 | (3) |
| KMS 82 | | | 05 40 37.2 | | | −08 04 02: | HFe? | — | 4 | 2 | | 11.55–14.57 | | |
| KMS 108 | | | 05 40 46.3 | | | −08 53 48: | HBe? | — | 2 | 1 | | 11.19–11.21 | | |
| | HD 37806 | MWC 120 | 05 41 02.3 | | | −02 43 01 | HAe | 9 | 7 | 2 | | 7.86–7.96 | 7.89–7.98 | (3) |
| KMS 118 | | | 05 41 03.9 | | | −09 23 18: | HFe | — | 3 | 1 | | 14.80–14.92 | | |
| V351 Ori | HD 38238 | | 05 44 18.8 | | | +00 08 40 | HAe | 8 | 2 | 4 | | 8.89–9.13 | 8.81–10.94 | (6) |
| FU Ori | BD+09 5427 | CDS 535 | 05 45 22.4 | | | +09 04 12 | FUOR | 2 | 1 | — | | 9.09–9.32 | 8.02–10.06 | (4) |
| | HD 288313 | | 05 54 03.0 | | | +01 40 22 | TT | — | 7 | — | | 9.45–9.95 | | |
| V1307 Ori | HD 250550 | MWC 789 | 06 02 00.0 | | | +16 30 57 | HBe | 14 | — | 2 | | 9.53–9.56 | 9.54–9.88 | (3) |
| 17 Lep | HD 41511 | MWC 519 | 06 04 59.1 | | | −16 29 04 | A-sh | 2 | 3 | — | | 4.91–5.01 | 4.97–5.02 | (1) |
| LkH α 208 | | | 06 07 49.4 | | | +18 39 27 | HAe | — | 3 | — | | 11.04–11.50 | 11.36–12.21 | (4) |
| LkH α 339 | | | 06 10 54.4 | | | −06 14 39 | HAe | — | 5 | 1 | | 13.44–13.64 | 13.65–13.67 | (4) |

Table 1. (Continued)

| Name | Cat. Des. | Other | α (2000) h m s | δ (2000) ° ' " | Type | # Observations | | | V_{obs} [mag] | V_{lit} [mag] | Ref. |
|------------|-------------|------------------|--------------------------|--------------------------|-------|----------------|-------|-------|---------------------------|---------------------------|------|
| | | | | | | WULBV | UBVRI | JHKLM | | | |
| V1308 Ori | | MWC 137 | 06 18 45.5 | +15 16 52 | HBe | – | 2 | – | 11.67–11.98 | 11.79–12.27 | (4) |
| FS CMa | HD 45677 | MWC 142 | 06 28 17.4 | –13 03 11 | B[e] | 17 | 13 | 2 | 7.94–8.74 | 7.22–8.85 | (7) |
| VY Mon | | | 06 31 06.9 | +10 26 05 | HBe | – | 3 | – | 12.97–13.09 | 12.77–14.77 | (4) |
| V699 Mon | | LkH α 215 | 06 32 41.8 | +10 09 34 | HBe | 19 | 5 | 2 | 10.46–10.91 | 10.36–10.84 | (2) |
| V700 Mon | HD 259431 | MWC 147 | 06 33 05.2 | +10 19 20 | HBe | 13 | 6 | 2 | 8.69–8.75 | 8.65–8.97 | (1) |
| R Mon | BD+08 1427 | MWC 151 | 06 39 09.9 | +08 44 10 | HBe | 13 | 4 | 2 | 10.35–12.41 | 11.60–12.54 | (4) |
| V590 Mon | W90 | LkH α 25 | 06 40 44.6 | +09 48 02 | HFe | – | 8 | 1 | 11.88–12.94 | 12.60–12.95 | (4) |
| ST Pup | CD–37 3101 | | 06 48 56.4 | –37 16 33 | Ceph. | – | 1 | – | 10.31 | 9.28–10.68 | (2) |
| V743 Mon | HD 50138 | MWC 158 | 06 51 33.4 | –06 57 59 | B[e] | 20 | 13 | 2 | 6.59–6.85 | 6.53–6.65 | (1) |
| GU CMa | HD 52721 | MWC 164 | 07 01 49.5 | –11 18 03 | HBe | 1 | 2 | – | 6.50–6.57 | 6.52–6.71 | (1) |
| Z CMa | HD 53179 | MWC 165 | 07 03 43.2 | –11 33 06 | FUOR | 19 | 19 | 6 | 8.68–10.27 | 8.61–10.22 | (4) |
| HU CMa | | LkH α 220 | 07 04 06.8 | –11 26 07 | HBe | – | 3 | – | 11.52–11.92 | 11.57–12.19 | (4) |
| V750 Mon | HD 53367 | MWC 166 | 07 04 25.5 | –10 27 16 | HBe | 12 | 4 | 3 | 6.92–7.08 | 7.00–7.22 | (1) |
| NX Pup | CD–44 3318 | Hen 3-32 | 07 19 28.3 | –44 35 11 | HAe | 15 | 7 | 3 | 9.63–11.08 | 9.53–10.99 | (3) |
| V694 Mon | | MWC 560 | 07 25 51.3 | –07 44 08 | Symb. | – | 8 | – | 9.96–10.33 | 9.10–10.10 | (2) |
| | HD 58647 | | 07 25 56.1 | –14 10 44 | A-sh | – | – | 1 | | 6.76–6.88 | (1) |
| | HD 59319 | MWC 843 | 07 28 36.8 | –21 57 49 | HBe? | – | 4 | – | 8.29–8.31 | 8.19–8.47 | (1) |
| | HD 59771 | | 07 30 51.1 | –18 15 43 | Fe | – | 2 | – | 8.89–8.94 | 8.83–9.31 | (1) |
| Hen 3-40 | | Wray 15-30 | 07 31 48: | –41 34 00: | Ge | – | 3 | 1 | 13.73–14.42 | | |
| PW Pup | CD–30 5135 | Hen 3-83 | 07 49 06.0 | –31 07 43 | Fe | – | 2 | – | 9.23–9.24 | 9.27–9.97 | (1) |
| V402 Pup | HD 64315 | | 07 52 20.3 | –26 25 47 | Oe | – | 1 | – | 9.24 | 8.99–9.39 | (1) |
| AS 202 | CD–37 4833 | Hen 3-174 | 08 32 35.8 | –37 59 02 | HBe? | – | 1 | – | 10.80 | 9.70–10.70 | (2) |
| ESO 313-10 | | | 08 42 17.0 | –40 44 13: | HBe | – | 3 | 1 | 14.24–14.59 | | |
| Hen 3-209 | | Wra 15-285 | 08 48 45.5 | –46 05 08 | B[e] | – | 1 | – | 13.56 | | |
| Hen 2-14 | | Wra 16-30 | 08 51 59.5 | –46 18 05: | B[e] | – | 1 | – | 14.05 | | |
| OU Vel | HD 76534 | Hen 3-225 | 08 55 08.7 | –43 28 00 | HBe | 2 | 2 | 2 | 7.96–8.08 | | |
| RCW 34 | | Gum 19 | 08 56 27.8 | –43 05 46: | O | – | 2 | – | 11.21–11.64 | | |
| Herbst 28 | | Bran 215 | 08 58 26.3 | –43 26 10 | Be | – | 2 | 1 | 11.25–14.76 | | |
| RCW 36 | | Bran 217 | 08 59 00.9 | –43 44 10 | HFe? | – | 1 | – | 15.20 | | |
| | HD 309784 | Hen 3-315 | 09 42 36.4 | –67 08 54 | B[e] | – | 1 | – | 10.16 | | |
| | HD 85567 | Hen 3-331 | 09 50 28.5 | –60 58 03 | HBe | – | 33 | – | 8.49–8.59 | 8.44–8.75 | (1) |
| | HD 87643 | MWC 198 | 10 04 30.3 | –58 39 52 | B[e] | 22 | 16 | 3 | 8.52–9.00 | 8.68–9.20 | (3) |
| 17 Sex | HD 88195 | | 10 10 07.5 | –08 24 29 | B-sh | 1 | – | – | 5.90 | 5.87–5.93 | (1) |
| | HD 89249 | MWC 200 | 10 16 20.6 | –55 35 51 | Be | – | 1 | 1 | 8.90 | 8.70–9.15 | (1) |
| HR Car | HD 90177 | MWC 202 | 10 22 53.8 | –59 37 28 | LBV | 21 | 11 | 3 | 7.44–8.42 | 7.40–8.34 | (3) |
| Hen 3-416 | | Th 35-40 | 10 25 44.5 | –58 33 52 | HBe? | – | 1 | – | 10.59 | | |
| Wra 15-566 | | | 10 25 51.7 | –60 53 14 | TT? | – | 2 | – | 13.87–13.90 | | |
| V503 Car | HD 90578 | Hen 3-418 | 10 26 00.2 | –57 49 37 | B[e] | – | 1 | – | 9.33 | 9.08–9.75 | (1) |
| | HD 92061 | Hen 3-455 | 10 36 24.2 | –58 57 09 | HBe? | – | 1 | – | 8.97 | 8.99–9.87 | (1) |
| | CPD–59 2617 | Hen 3-480 | 10 44 49.4 | –59 49 28: | HBe? | – | – | 1 | | | |
| | HD 94509 | Hen 3-515 | 10 53 27.3 | –58 25 25 | HBe | – | 4 | – | 9.08–9.13 | 8.85–9.41 | (1) |
| | CPD–59 2854 | Wra 15-689 | 10 55 55.4 | –60 14 20 | B[e] | – | 1 | – | 10.54 | | |
| GG Car | HD 94878 | MWC 215 | 10 55 58.9 | –60 23 33 | B[e] | 23 | 14 | 3 | 8.53–9.03 | 8.48–9.00 | (8) |
| | HD 305773 | CD–59 3426 | 10 56 03.9 | –60 29 38 | HBe? | – | 1 | – | 9.08 | 8.80–9.39 | (1) |
| AG Car | HD 94910 | MWC 216 | 10 56 11.6 | –60 27 13 | LBV | 22 | 11 | 3 | 6.49–7.00 | 6.10–8.12 | (9) |
| HR 4329 | HD 96706 | | 11 06 49.9 | –70 52 41 | B-sh | 2 | – | – | 5.58–5.59 | 5.54–5.60 | (1) |
| DI Cha | CD–76 486 | Hen 3-593 | 11 07 20.7 | –77 38 07 | TT | 23 | 3 | 3 | 10.65–10.74 | 10.66–10.74 | (10) |
| CU Cha | HD 97048 | Hen 3-597 | 11 08 03.3 | –77 39 17 | HAe | 23 | 9 | 7 | 8.40–8.48 | 8.44–8.48 | (10) |
| | HD 97240 | | 11 09 18.1 | –77 47 40 | F-sh | 2 | – | – | 8.49–8.50 | 8.42–8.69 | (1) |
| | HD 97300 | | 11 09 50.0 | –76 36 48 | B-sh | – | 4 | 1 | 9.02–9.08 | 8.97–9.03 | (1) |
| | HD 98922 | Hen 3-644 | 11 22 31.7 | –53 22 11 | HBe | 2 | 38 | – | 6.72–6.81 | 6.72–6.83 | (1) |
| KR Mus | HD 100546 | Hen 3-672 | 11 33 25.4 | –70 11 41 | HBe | 2 | 4 | 1 | 6.69–6.74 | 6.71–6.77 | (3) |
| | HD 101412 | Hen 3-692 | 11 39 44.5 | –60 10 28 | HBe | – | 6 | 1 | 9.24–9.28 | 8.97–9.56 | (1) |
| V644 Cen | HD 306989 | Hen 3-700 | 11 43 06.5 | –60 44 05 | Be | – | 1 | 1 | 10.52 | 9.91–10.33 | (10) |
| DX Cha | HD 104237 | Hen 3-741 | 12 00 05.1 | –78 11 35 | HAe | 2 | 38 | 1 | 6.49–6.59 | 6.56–6.68 | (1) |
| | HD 105234 | | 12 07 05.5 | –78 44 28 | A-sh | 2 | – | – | 7.48–7.48 | 7.45–7.59 | (1) |
| RU Cen | HD 105578 | Hen 3-755 | 12 09 23.8 | –45 25 35 | Ge | – | 1 | – | 8.63 | 8.78–9.56 | (1) |

Table 1. (Continued)

| Name | Cat. Des. | Other | α (2000) h m s | δ (2000) ° ' " | Type | # Observations | | | V_{obs} [mag] | V_{lit} [mag] | Ref. |
|------------------|----------------|--------------------|--------------------------|--------------------------|-------|----------------|-------|-------|---------------------------|---------------------------|------|
| | | | | | | WULBV | UBVRI | JHKLM | | | |
| Hen 3-759 | | | 12 12 08.6 | −62 29 01 | Be | – | 1 | – | 10.47 | | |
| DK Cha | IRAS12496–7650 | | 12 53 16.1 | −77 07 02 | HAe | – | – | 1 | | | |
| V1028 Cen | CD–48 7859 | Hen 3-847 | 13 01 17.8 | −48 53 19 | HAe | – | 34 | 2 | 10.56–10.65 | | |
| LSS 3027B | CPD–61 3587B | | 13 19 04.0 | −62 34 10 | HBe | 1 | 2 | 3 | 15.17–15.24 | | |
| CQ Cir | HD 130437 | Hen 3-1031 | 14 50 50.3 | −60 17 10 | HBe | – | 7 | 1 | 9.85–9.91 | | |
| SS73 44 | | | 15 03 23.9 | −63 22 54 | HBe | – | 2 | 1 | 14.75–16.80 | | |
| | HD 132947 | | 15 04 56.1 | −63 07 53 | HAe | – | 1 | – | 8.91 | 8.73–9.12 | (1) |
| HT Lup | CD–33 10685 | Hen 3-1095 | 15 45 12.9 | −34 17 31 | TT | 9 | – | – | 10.21–10.26 | 10.26–10.40 | (2) |
| | HD 140817 | | 15 47 04.5 | −35 30 37 | B-sh | 2 | – | – | 6.83–6.84 | 6.77–6.90 | (1) |
| | HD 141569 | | 15 49 57.7 | −03 55 16 | HAe | – | 1 | – | 7.10 | 7.11–7.14 | (3) |
| | HD 144432 | Hen 3-1141 | 16 06 58.0 | −27 43 10 | HAe | – | 1 | – | 8.17 | 8.08–8.35 | (1) |
| V856 Sco | HD 144668 | HR 5999 | 16 08 34.3 | −39 06 18 | HAe | 9 | 26 | 13 | 6.55–7.32 | 6.64–7.95 | (3) |
| V1027 Sco | HD 144667 | HR 6000 | 16 08 34.6 | −39 05 34 | B-sh | 7 | 8 | 9 | 6.65–6.73 | 6.65–6.67 | (3) |
| | HD 147196 | | 16 21 19.2 | −23 42 29 | Be | – | 5 | 2 | 7.00–7.04 | 7.02–7.12 | (1) |
| Wra 15-1484 | | Hen 3-1191 | 16 27 14.2 | −48 39 28 | B[e] | – | 44 | – | 12.52–13.91 | | |
| V2307 Oph | HD 150193 | MWC 863 | 16 40 17.9 | −23 53 45 | HAe | 3 | 11 | 1 | 8.80–8.88 | 8.79–8.87 | (10) |
| AK Sco | HD 152404 | | 16 54 44.8 | −36 53 19 | HFe | 3 | 5 | 2 | 8.81–9.18 | 8.76–9.93 | (3) |
| AS 215 | HD 322422 | Hen 3-1293 | 16 57 23.9 | −40 21 40 | B[e] | – | 6 | – | 9.68–9.71 | 9.71–9.75 | (3) |
| V921 Sco | CD–42 11721 | MWC 865 | 16 59 06.9 | −42 42 08 | B[e] | 4 | 7 | 4 | 11.10–11.36 | 11.43–11.73 | (2) |
| V1104 Sco | HD 326823 | Hen 3-1330 | 17 06 53.9 | −42 36 40 | B[e] | – | 8 | – | 8.98–9.04 | 8.90–9.33 | (1) |
| KK Oph | | Hen 3-1346 | 17 10 08.1 | −27 15 18 | HAe | 3 | 7 | 1 | 11.32–12.36 | 11.37–11.87 | (3) |
| Wra 15-1651 | | | 17 14 45.6 | −36 18 35 | HBe? | – | – | 1 | | | |
| Wra 15-1678 | | | 17 20 14.8 | −37 39 35 | HBe? | – | – | 1 | | | |
| | HD 156702 | MWC 257 | 17 20 50.6 | −38 39 09 | B[e] | – | 4 | – | 8.70–8.72 | 8.58–8.83 | (1) |
| 51 Oph | HD 158643 | HR 6519 | 17 31 25.0 | −23 57 46 | Be | 2 | 7 | – | 4.77–4.81 | 4.77–4.82 | (1) |
| XX Oph | HD 161114 | MWC 269 | 17 43 56.5 | −06 16 09 | Symb. | 11 | 5 | 1 | 8.80–9.08 | 8.80–9.11 | (3) |
| | HD 163296 | MWC 275 | 17 56 21.3 | −21 57 22 | HAe | 8 | 15 | 4 | 6.82–6.93 | 6.82–6.93 | (1) |
| LkH α 108 | | | 18 03 50.6 | −24 21 11 | HBe? | 2 | – | – | 11.67–11.71 | | |
| V4203 Sgr | CD–24 13830 | LkH α 112 | 18 04 22.5 | −24 22 10 | HBe | 2 | 2 | 1 | 9.95–9.98 | 9.54–10.19 | (4) |
| | HD 164906 | MWC 280 | 18 04 25.8 | −24 23 08 | Oe | 3 | 2 | – | 7.46–7.49 | 7.32–7.59 | (1) |
| LkH α 115 | | | 18 04 50.4 | −24 25 42 | HBe? | 3 | 2 | 1 | 11.95–11.96 | 10.80–12.25 | (4) |
| LkH α 118 | CD–24 13874 | Hen 3-1583 | 18 05 49.6 | −24 15 20 | Be | 5 | 6 | 3 | 11.11–11.18 | 10.69–11.61 | (4) |
| LkH α 119 | | | 18 05 56: | −24 14 24: | Be | 5 | 6 | 3 | 12.15–12.21 | 11.27–12.76 | (4) |
| NZ Ser | | MWC 297 | 18 27 39.6 | −03 49 52 | HBe | 6 | 5 | – | 12.03–12.63 | 11.95–12.60 | (4) |
| VV Ser | | | 18 28 47.9 | +00 08 40 | HAe | 1 | 4 | – | 11.81–12.31 | 11.18–13.09 | (4) |
| V431 Sct | | MWC 300 | 18 29 25.7 | −06 04 37 | B[e] | 1 | 1 | – | 11.73–11.79 | 11.54–11.90 | (4) |
| AS 310 | | MH α 375-17 | 18 33 21.2 | −04 58 07 | HBe | 1 | 1 | 4 | 12.47–12.59 | 12.08–13.19 | (4) |
| HR 7169 | HD 176269 | | 19 01 03.2 | −37 03 39 | B-sh | 2 | – | – | 6.72–6.74 | 6.63–6.73 | (1) |
| HR 7170 | HD 176270 | | 19 01 04.3 | −37 03 42 | B-sh | 1 | – | – | 6.45 | 6.34–6.44 | (1) |
| S CrA | | Hen 3-1731 | 19 01 20: | −36 57 00: | TT | 8 | – | – | 10.46–11.76 | 10.80–12.44 | (4) |
| | HD 176386 | | 19 01 38.9 | −36 53 27 | B-sh | 11 | 6 | 3 | 7.27–7.43 | 7.27–7.30 | (3) |
| TY CrA | CD–37 13024 | | 19 01 40.8 | −36 52 34 | A-sh | 12 | 6 | 5 | 9.34–9.70 | 9.06–9.79 | (3) |
| R CrA | CD–37 13027 | Hen 3-1733 | 19 01 53.7 | −36 57 08 | HAe | 8 | 10 | 6 | 12.10–13.72 | 10.18–14.65 | (4) |
| T CrA | | | 19 01 58.8 | −36 57 49 | HFe | 7 | 2 | 4 | 13.27–14.10 | 12.10–13.99 | (4) |
| | HD 179218 | MWC 614 | 19 11 11.3 | +15 47 16 | HBe | 1 | – | – | 7.39 | 7.34–7.47 | (1) |
| WW Vul | HD 344361 | MWC 987 | 19 25 58.8 | +21 12 31 | HAe | 10 | 8 | – | 10.48–11.68 | 10.25–12.40 | (4) |
| V1295 Aql | HD 190073 | MWC 325 | 20 03 02.5 | +05 44 17 | HAe | 1 | – | – | 7.86 | 7.84–7.89 | (10) |
| HR 7836 | HD 195325 | MWC 1019 | 20 30 18.0 | +10 53 45 | HBe? | 2 | – | – | 5.97–6.03 | 6.00–6.09 | (1) |
| Total: | 162 stars | | | | | 753 | 830 | 229 | | | |

Explanation of the abbreviations used: HAe/Be = Herbig Ae/Be star; HFe = F-type Herbig-like star; TT = T Tauri star; FUOR = FU Orionis type star; A-, B-sh: A- or B- type star with shell lines; Be = classical Be star; B[e] = B[e] star; Symb. = symbiotic star; Cep. = Cepheid; LBV = Luminous Blue Variable.

References: (1) Tycho Catalogue (ESA 1997); (2) General Catalogue of Variable Stars (Kholopov et al. 1998); (3) ESO Long Term Photometry of Variables data (Manfroid et al. 1991, 1995; Sterken et al. 1993, 1995); (4) Herbst & Shevchenko (1999); (5) Shevchenko et al. (1997); (6) van den Ancker et al. (1996); (7) de Winter & van den Ancker (1997); (8) Gosset et al. (1984); (9) Sterken et al. (1996); (10) Kilkenny et al. (1985).

1988 at the 90 cm Dutch Light Collector. The data taken in 1978 were obtained when this telescope was located in Hartebeespoortdam, South Africa. All observations in later years were obtained after the telescope had been moved to the European Southern Observatory, La Silla, Chile. A detailed description of the Walraven photometric system can be found in de Geus et al. (1989), who also explain the employed measuring and data reduction procedures. All data presented here were made with a 5-channel photometer which measures all Walraven *WULBV* intensities simultaneously, thereby avoiding any systematic effects due to non-simultaneous measurements at the different photometric passbands. A circular diaphragm with a diameter of $21''.5$ was used for all stars. Typical errors in the data, given in \log_{10} intensity values, are 0.004, 0.003, 0.004, 0.006, and 0.009 for *V*, *V* − *B*, *B* − *U*, *U* − *W*, and *B* − *L*, respectively. Results of the photometric measurements in the Walraven system are listed in Table 2 (only available electronically). The last column in this table lists the corresponding *V* magnitude in the Johnson photometric system, computed using the transformation formula by Brand & Wouterloot (1988). Also listed in Table 2 are the date and heliocentric julian date (JD) of each observation. In some cases, the exact universal time of individual observations proved impossible to reconstruct. In those cases, only the integer fraction of the JD is listed.

Optical photometry in the Johnson/Cousins *UBV(RI)_c* system, was obtained at La Silla with the ESO 50 cm and 1 m telescopes, during several observing runs between 1979 and 1994. Additional *UBV(RI)_c* photometry was obtained in February 1997 at the South African Astronomical Observatory (SAAO) using the SAAO 75 cm telescope. During these observations, mostly made through a $15''$ circular diaphragm, the telescope was equipped with a single channel photometer and either a Quantacon RCA 3103A (pre-1993) or EMI 9658RA (post-1993) photo-multiplier. The observations through *U*, *B*, *V*, *R_c* and *I_c* filters were made consecutively, in ascending or in descending order. Data were reduced with the Dutch method, using the E-region standard stars from the list by Graham (1982). Non-variable K and M0 standards were always included to avoid large transformation errors. Typical errors in the resulting data, listed in Table 3 (only available electronically), are 0^m01 , 0^m01 , 0^m02 , 0^m01 , 0^m02 for *V*, *B* − *V*, *U* − *B*, *V* − *R* and *V* − *I*, respectively. For stars fainter than 12th magnitude the errors may be twice those values. A colon following the data indicates that these particular data are more uncertain than the values listed here. Two colons indicates very uncertain data.

Near-IR photometric data in the ESO *JHKLM* system (Bouchet et al. 1989, 1991), of the programme stars were obtained with the ESO 1 m telescope at La Silla on several occasions between 1979 and 1995. Additional Near-IR observations in the SAAO *JHKLM* system (Carter 1990; Carter & Meadows 1995) were obtained with the 1.9 m telescope at the SAAO in 1997. During the near-IR observations, made through a $13''$ diaphragm, the telescope

was equipped with a photovoltaic InSb detector unit. Standard stars were obtained from the list by Bouchet et al. (1991). Sky subtraction was achieved by chopping, with a frequency of 8 Hz, in the east-west direction with a throw of $30''$ amplitude. The *J*, *H*, *K*, *L* and *M* magnitudes were again measured consecutively, in ascending or in descending order. Typical errors in these data are 0^m04 , 0^m04 , 0^m03 , 0^m05 , 0^m06 for the *J*, *H*, *K*, *L* and *M* magnitudes, respectively. The resulting near-IR magnitudes of our programme stars are listed in Table 4 (only available electronically).

3. Discussion

A summary of all 1809 new photometric measurements is given in the last four columns of Table 1, which list the number of obtained measurements in the Walraven, Johnson/Cousins and Near-IR photometric systems, as well as the observed range in *V* magnitude. Note that for some stars with a small range in *V*, this is entirely compatible with the expected errors in our measurements. Also listed in Table 1 is the range of photometric values found in the literature. Ranges derived from photographic rather than photo-electric data are indicated by the suffix “pg”. In most cases the range observed by us is within the previously known range. In other cases (e.g. V1080 Tau), the data presented here expands the known variability range. In some objects (e.g. LkH α 339, V921 Sco) the range in *V* magnitude observed by us is completely out of the range known from literature. In those cases one might expect the star to show variations on time scales longer than those covered by our data.

Although a detailed analysis of all the data presented here is beyond the scope of this paper, we note that the statistical properties of the observed variations are in good agreement with previous work. Of the 116 stars with more than one measurement in Tables 2 or 3, 66 (or 57%) show variability in the *V* band with a magnitude exceeding 0^m1 . This is very close to the 65% of H Ae Bes showing significant variations in the study by van den Ancker et al. (1998). The slightly lower fraction found here can easily be explained by the smaller number of measurements per star in the current study, causing us to not detect variability in some known variables.

In the case of near-infrared variability, literature data is much more scarce (in fact, for many of the stars the data listed in Table 4 are the first *JHKLM* measurements in the literature). Therefore a comparison with previous work is more cumbersome. Of the 50 stars with more than one measurement in Table 4, 15 show significant ($> 0^m2$) variability in their *K* ($2.2 \mu\text{m}$) magnitude. Again we must caution that in view of the limited amount of measurements per star this will certainly be an underestimate of the number of near-infrared variables in our sample. In fact, in some cases the magnitudes we provide differ by more than 0^m5 with determinations from the literature (Gezari et al. 1999; Eiroa et al. 2001). This could indicate variability of the circumstellar disk around these objects,

rather than the variable circumstellar obscuration commonly associated with large-amplitude optical brightness variations. Consequently these stars are good candidates for further studies.

The data presented here are suitable to be combined with the photometric data of the studied stars already present in the literature to perform a more detailed analysis of the photometric behaviour of the stars in our sample. However, the main value of the catalogue presented here may be for historical reference. It is well known that some young stars with well-documented historical variability (e.g. AB Aur, BN Ori, V351 Ori) have in recent years displayed a constant brightness for decades or longer. It is likely that some stars in our sample which have remained relatively constant over the time-frame studied here will become more active in years to come and vice-versa, that our variable stars may at some time cease to vary. In those cases, the information presented in Tables 2–4 will be extremely valuable in exploring the presently unknown cause of such long-term changes in photometric behaviour of young stars.

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Table 2. Photometry of programme stars in the Walraven WULBV system

| Star | Date | JD-2400000 | V | V-B | B-U | U-W | B-L | Vj |
|-----------|----------|------------|--------|--------|-------|-------|-------|--------|
| 71 Cet | 21-09-90 | 48155.651 | 0.089 | 0.107 | 0.562 | 0.379 | 0.214 | 6.651 |
| | 27-09-90 | 48161.828 | 0.217 | -0.002 | 0.387 | 0.128 | 0.111 | 6.342 |
| HD 23862 | 01-02-90 | 47923.550 | 0.724 | -0.027 | 0.239 | 0.065 | 0.058 | 5.077 |
| HD 283817 | 15-01-91 | 48272 | -1.934 | 0.393 | 0.435 | 0.035 | 0.406 | 11.681 |
| | 17-01-91 | 48274 | -1.924 | 0.394 | 0.434 | 0.058 | 0.400 | 11.656 |
| AB Aur | 17-02-90 | 47908.458 | -0.063 | 0.053 | 0.410 | 0.110 | 0.170 | 7.036 |
| HD 31648 | 21-09-90 | 48155.841 | -0.338 | 0.081 | 0.431 | 0.180 | 0.202 | 7.721 |
| | 27-09-90 | 48161.852 | -0.325 | 0.081 | 0.432 | 0.156 | 0.203 | 7.689 |
| UX Ori | 22-12-80 | 44596.576 | -1.377 | 0.177 | 0.564 | 0.266 | 0.273 | 10.309 |
| | 24-12-80 | 44598.583 | -1.365 | 0.168 | 0.552 | 0.244 | 0.264 | 10.280 |
| | 25-12-80 | 44599.573 | -1.421 | 0.177 | 0.564 | 0.265 | 0.273 | 10.419 |
| | 26-12-80 | 44600.608 | -1.459 | 0.182 | 0.551 | 0.247 | 0.273 | 10.514 |
| | 27-12-80 | 44601.578 | -1.465 | 0.186 | 0.556 | 0.247 | 0.272 | 10.528 |
| | 28-12-80 | 44602.572 | -1.390 | 0.175 | 0.546 | 0.249 | 0.265 | 10.342 |
| | 29-12-80 | 44603.583 | -1.392 | 0.178 | 0.549 | 0.259 | 0.267 | 10.347 |
| | 30-12-80 | 44604.588 | -1.346 | 0.169 | 0.548 | 0.249 | 0.264 | 10.233 |
| | 31-12-80 | 44605.543 | -1.394 | 0.170 | 0.541 | 0.262 | 0.267 | 10.352 |
| | 01-01-81 | 44606.547 | -1.728 | 0.195 | 0.551 | 0.247 | 0.269 | 11.185 |
| | 02-01-81 | 44607.572 | -1.508 | 0.197 | 0.582 | 0.276 | 0.285 | 10.635 |
| | 12-01-81 | 44617.582 | -1.534 | 0.190 | 0.547 | 0.238 | 0.270 | 10.700 |
| | 13-01-81 | 44618.542 | -1.970 | 0.182 | 0.516 | 0.198 | 0.256 | 11.791 |
| | 14-01-81 | 44619.577 | -1.672 | 0.213 | 0.591 | 0.255 | 0.290 | 11.043 |
| | 15-01-81 | 44620.557 | -1.630 | 0.201 | 0.578 | 0.245 | 0.284 | 10.939 |
| | 16-01-81 | 44621.567 | -1.516 | 0.193 | 0.580 | 0.271 | 0.284 | 10.655 |
| | 17-01-81 | 44622.545 | -1.418 | 0.167 | 0.550 | 0.245 | 0.267 | 10.413 |
| | 18-01-81 | 44623.577 | -1.390 | 0.159 | 0.540 | 0.254 | 0.260 | 10.343 |
| | 19-01-81 | 44624.563 | -1.449 | 0.179 | 0.573 | 0.255 | 0.277 | 10.489 |
| | 20-01-81 | 44625.565 | -1.385 | 0.169 | 0.549 | 0.247 | 0.265 | 10.330 |
| | 21-01-81 | 44626.570 | -1.380 | 0.171 | 0.552 | 0.252 | 0.264 | 10.317 |
| | 22-01-81 | 44627.557 | -1.405 | 0.170 | 0.537 | 0.240 | 0.258 | 10.380 |
| | 23-01-81 | 44628.581 | -1.425 | 0.177 | 0.570 | 0.262 | 0.273 | 10.429 |
| | 24-01-81 | 44629.730 | -1.375 | 0.167 | 0.551 | 0.276 | 0.267 | 10.305 |
| | 25-01-81 | 44630.547 | -1.352 | 0.162 | 0.553 | 0.251 | 0.263 | 10.248 |
| | 26-01-81 | 44631.549 | -1.404 | 0.169 | 0.568 | 0.268 | 0.270 | 10.378 |
| | 27-01-81 | 44632.567 | -1.545 | 0.188 | 0.564 | 0.260 | 0.277 | 10.728 |
| | 28-01-81 | 44633.555 | -1.658 | 0.190 | 0.546 | 0.239 | 0.269 | 11.010 |
| | 01-03-88 | 47222 | -1.436 | 0.127 | 0.164 | 0.068 | 0.217 | 10.463 |
| V346 Ori | 23-12-80 | 44597.582 | -1.446 | 0.149 | 0.464 | 0.220 | 0.238 | 10.484 |
| | 25-12-80 | 44599.585 | -1.425 | 0.144 | 0.452 | 0.217 | 0.234 | 10.432 |
| | 27-12-80 | 44601.630 | -1.453 | 0.152 | 0.466 | 0.237 | 0.238 | 10.502 |
| | 29-12-80 | 44603.597 | -1.498 | 0.167 | 0.478 | 0.253 | 0.251 | 10.613 |
| | 31-12-80 | 44605.584 | -1.458 | 0.154 | 0.467 | 0.234 | 0.242 | 10.514 |
| | 01-01-81 | 44606.580 | -1.578 | 0.185 | 0.513 | 0.266 | 0.267 | 10.811 |
| | 02-01-81 | 44607.584 | -1.517 | 0.171 | 0.487 | 0.259 | 0.254 | 10.660 |
| | 12-01-81 | 44617.594 | -1.614 | 0.199 | 0.520 | 0.304 | 0.273 | 10.900 |
| | 13-01-81 | 44618.556 | -1.603 | 0.193 | 0.512 | 0.289 | 0.269 | 10.873 |
| | 14-01-81 | 44619.594 | -1.577 | 0.189 | 0.510 | 0.268 | 0.266 | 10.808 |
| | 15-01-81 | 44620.570 | -1.527 | 0.178 | 0.478 | 0.269 | 0.252 | 10.684 |
| | 16-01-81 | 44621.581 | -1.477 | 0.161 | 0.477 | 0.229 | 0.248 | 10.561 |
| | 17-01-81 | 44622.585 | -1.469 | 0.161 | 0.459 | 0.223 | 0.243 | 10.541 |
| | 18-01-81 | 44623.592 | -1.478 | 0.160 | 0.477 | 0.237 | 0.243 | 10.563 |
| | 19-01-81 | 44624.576 | -1.442 | 0.151 | 0.447 | 0.228 | 0.234 | 10.474 |
| | 20-01-81 | 44625.579 | -1.433 | 0.148 | 0.460 | 0.205 | 0.237 | 10.452 |

| | | | | | | | | |
|------------|----------|-----------|--------|--------|-------|-------|-------|--------|
| | 21-01-81 | 44626.583 | -1.456 | 0.156 | 0.460 | 0.220 | 0.240 | 10.509 |
| | 22-01-81 | 44627.569 | -1.487 | 0.164 | 0.480 | 0.241 | 0.249 | 10.586 |
| | 25-01-81 | 44630.601 | -1.468 | 0.156 | 0.472 | 0.223 | 0.245 | 10.539 |
| | 26-01-81 | 44631.574 | -1.588 | 0.187 | 0.501 | 0.268 | 0.262 | 10.836 |
| | 27-01-81 | 44632.592 | -1.514 | 0.169 | 0.485 | 0.245 | 0.253 | 10.653 |
| | 28-01-81 | 44633.567 | -1.443 | 0.152 | 0.454 | 0.222 | 0.235 | 10.477 |
| HK Ori | 23-12-80 | 44597.652 | -1.871 | 0.186 | 0.336 | 0.123 | 0.178 | 11.543 |
| | 25-12-80 | 44599.694 | -1.869 | 0.185 | 0.331 | 0.114 | 0.172 | 11.538 |
| | 27-12-80 | 44601.655 | -1.861 | 0.192 | 0.314 | 0.116 | 0.178 | 11.518 |
| | 28-12-80 | 44602.676 | -1.879 | 0.186 | 0.355 | 0.133 | 0.183 | 11.563 |
| | 29-12-80 | 44603.675 | -1.886 | 0.193 | 0.347 | 0.132 | 0.178 | 11.580 |
| | 30-12-80 | 44604.640 | -1.876 | 0.199 | 0.352 | 0.128 | 0.183 | 11.555 |
| | 01-01-81 | 44606.592 | -1.879 | 0.201 | 0.320 | 0.131 | 0.175 | 11.562 |
| | 02-01-81 | 44607.620 | -1.908 | 0.198 | 0.328 | 0.102 | 0.178 | 11.635 |
| | 12-01-81 | 44617.606 | -1.918 | 0.215 | 0.336 | 0.091 | 0.187 | 11.658 |
| | 13-01-81 | 44618.581 | -1.905 | 0.217 | 0.337 | 0.100 | 0.187 | 11.625 |
| | 14-01-81 | 44619.611 | -1.909 | 0.215 | 0.320 | 0.095 | 0.187 | 11.636 |
| | 15-01-81 | 44620.585 | -1.925 | 0.204 | 0.327 | 0.119 | 0.188 | 11.677 |
| | 16-01-81 | 44621.594 | -1.914 | 0.204 | 0.347 | 0.086 | 0.182 | 11.649 |
| | 17-01-81 | 44622.598 | -1.899 | 0.212 | 0.320 | 0.133 | 0.193 | 11.611 |
| | 18-01-81 | 44623.604 | -1.905 | 0.211 | 0.340 | 0.110 | 0.180 | 11.626 |
| | 19-01-81 | 44624.588 | -1.909 | 0.199 | 0.337 | 0.126 | 0.185 | 11.637 |
| | 20-01-81 | 44625.591 | -1.921 | 0.194 | 0.356 | 0.109 | 0.183 | 11.668 |
| | 22-01-81 | 44627.582 | -1.891 | 0.210 | 0.321 | 0.112 | 0.173 | 11.591 |
| | 23-01-81 | 44628.592 | -1.903 | 0.204 | 0.337 | 0.111 | 0.176 | 11.622 |
| | 25-01-81 | 44630.563 | -1.904 | 0.202 | 0.343 | 0.110 | 0.180 | 11.624 |
| | 26-01-81 | 44631.563 | -1.909 | 0.210 | 0.361 | 0.106 | 0.192 | 11.636 |
| | 27-01-81 | 44632.580 | -1.908 | 0.211 | 0.339 | 0.113 | 0.188 | 11.633 |
| | 28-01-81 | 44633.580 | -1.910 | 0.202 | 0.329 | 0.104 | 0.182 | 11.639 |
| RY Ori | 25-12-85 | 46425.557 | -2.019 | 0.376 | 0.424 | 0.400 | 0.353 | 11.896 |
| | 27-12-85 | 46427.682 | -1.880 | 0.139 | 0.179 | 0.103 | 0.235 | 11.571 |
| | 27-12-85 | 46427.679 | -2.320 | 0.088 | 0.209 | 0.184 | 0.252 | 12.676 |
| | 03-01-86 | 46433.634 | -2.208 | 0.407 | 0.497 | 0.300 | 0.316 | 12.364 |
| | 06-01-86 | 46436.613 | -2.206 | 0.404 | 0.482 | 0.394 | 0.336 | 12.358 |
| | 11-01-86 | 46441.690 | -1.894 | 0.367 | 0.445 | 0.309 | 0.300 | 11.582 |
| | 13-01-86 | 46443.618 | -1.995 | 0.375 | 0.451 | 0.261 | 0.304 | 11.834 |
| | 20-01-86 | 46450.677 | -2.251 | 0.382 | 0.474 | 0.205 | 0.337 | 12.474 |
| V372 Ori | 24-12-80 | 44598.708 | -0.450 | 0.067 | 0.449 | 0.131 | 0.159 | 8.002 |
| | 25-12-80 | 44599.725 | -0.450 | 0.064 | 0.447 | 0.136 | 0.161 | 8.003 |
| | 27-12-80 | 44601.749 | -0.449 | 0.066 | 0.449 | 0.130 | 0.158 | 8.000 |
| | 30-12-80 | 44604.721 | -0.449 | 0.064 | 0.447 | 0.131 | 0.159 | 8.000 |
| | 02-01-81 | 44607.592 | -0.450 | 0.065 | 0.448 | 0.131 | 0.156 | 8.003 |
| | 12-01-81 | 44617.538 | -0.445 | 0.065 | 0.451 | 0.131 | 0.160 | 7.990 |
| | 17-01-81 | 44622.678 | -0.450 | 0.067 | 0.448 | 0.133 | 0.161 | 8.002 |
| | 22-01-81 | 44627.678 | -0.448 | 0.066 | 0.447 | 0.136 | 0.160 | 7.998 |
| | 26-01-81 | 44631.535 | -0.448 | 0.065 | 0.447 | 0.132 | 0.160 | 7.998 |
| | 06-02-90 | 47928.459 | -0.446 | 0.067 | 0.440 | 0.132 | 0.150 | 7.992 |
| HD 36939 | 24-12-80 | 44598.643 | -0.848 | -0.003 | 0.285 | 0.065 | 0.106 | 9.004 |
| | 25-12-80 | 44599.725 | -0.846 | -0.003 | 0.285 | 0.064 | 0.111 | 8.999 |
| | 27-12-80 | 44601.749 | -0.846 | -0.003 | 0.286 | 0.062 | 0.106 | 8.999 |
| | 30-12-80 | 44604.720 | -0.847 | -0.006 | 0.283 | 0.067 | 0.109 | 9.002 |
| | 02-01-81 | 44607.598 | -0.846 | -0.004 | 0.286 | 0.065 | 0.109 | 8.999 |
| | 12-01-81 | 44617.538 | -0.848 | -0.003 | 0.285 | 0.066 | 0.107 | 9.004 |
| | 17-01-81 | 44622.678 | -0.847 | -0.003 | 0.286 | 0.067 | 0.110 | 9.002 |
| | 22-01-81 | 44627.677 | -0.845 | -0.005 | 0.286 | 0.065 | 0.109 | 8.997 |
| BD-05 1306 | 24-12-80 | 44598.644 | -1.319 | 0.235 | 0.582 | 0.241 | 0.264 | 10.159 |
| | 25-12-80 | 44599.657 | -1.317 | 0.235 | 0.564 | 0.239 | 0.260 | 10.154 |

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| | 27-12-80 | 44601.701 | -1.319 | 0.241 | 0.589 | 0.234 | 0.265 | 10.158 |
| | 28-12-80 | 44602.700 | -1.322 | 0.239 | 0.584 | 0.233 | 0.265 | 10.166 |
| | 01-01-81 | 44606.626 | -1.313 | 0.238 | 0.573 | 0.235 | 0.264 | 10.143 |
| | 12-01-81 | 44617.638 | -1.309 | 0.235 | 0.569 | 0.239 | 0.263 | 10.134 |
| | 18-01-81 | 44623.554 | -1.316 | 0.241 | 0.571 | 0.265 | 0.262 | 10.151 |
| | 22-01-81 | 44627.695 | -1.317 | 0.252 | 0.591 | 0.250 | 0.274 | 10.152 |
| | 25-01-81 | 44630.642 | -1.330 | 0.244 | 0.574 | 0.255 | 0.265 | 10.185 |
| | 27-01-81 | 44632.548 | -1.323 | 0.242 | 0.576 | 0.244 | 0.265 | 10.168 |
| KS Ori | 24-12-80 | 44598.615 | -1.295 | 0.064 | 0.349 | 0.116 | 0.150 | 10.115 |
| | 25-12-80 | 44599.656 | -1.294 | 0.058 | 0.342 | 0.111 | 0.150 | 10.113 |
| | 27-12-80 | 44601.694 | -1.294 | 0.066 | 0.353 | 0.121 | 0.155 | 10.113 |
| | 28-12-80 | 44602.694 | -1.295 | 0.063 | 0.347 | 0.125 | 0.157 | 10.115 |
| | 01-01-81 | 44606.628 | -1.297 | 0.061 | 0.350 | 0.119 | 0.154 | 10.121 |
| | 12-01-81 | 44617.640 | -1.296 | 0.063 | 0.352 | 0.112 | 0.151 | 10.118 |
| | 18-01-81 | 44623.554 | -1.295 | 0.064 | 0.350 | 0.116 | 0.152 | 10.115 |
| | 22-01-81 | 44627.689 | -1.287 | 0.075 | 0.351 | 0.128 | 0.160 | 10.094 |
| | 25-01-81 | 44630.636 | -1.276 | 0.066 | 0.308 | 0.114 | 0.140 | 10.068 |
| | 27-01-81 | 44632.545 | -1.294 | 0.064 | 0.343 | 0.124 | 0.150 | 10.113 |
| LZ Ori | 24-12-80 | 44598.615 | -1.152 | 0.093 | 0.341 | 0.089 | 0.137 | 9.755 |
| | 25-12-80 | 44599.638 | -1.152 | 0.091 | 0.342 | 0.087 | 0.141 | 9.755 |
| | 27-12-80 | 44601.677 | -1.156 | 0.093 | 0.348 | 0.089 | 0.141 | 9.765 |
| | 28-12-80 | 44602.700 | -1.156 | 0.093 | 0.342 | 0.087 | 0.138 | 9.765 |
| | 01-01-81 | 44606.629 | -1.154 | 0.092 | 0.346 | 0.089 | 0.138 | 9.760 |
| | 12-01-81 | 44617.640 | -1.285 | 0.119 | 0.427 | 0.150 | 0.216 | 10.085 |
| | 13-01-81 | 44618.599 | -1.152 | 0.094 | 0.344 | 0.090 | 0.140 | 9.755 |
| | 14-01-81 | 44619.629 | -1.155 | 0.092 | 0.345 | 0.089 | 0.141 | 9.763 |
| | 15-01-81 | 44620.605 | -1.154 | 0.095 | 0.343 | 0.089 | 0.138 | 9.760 |
| | 16-01-81 | 44621.612 | -1.154 | 0.094 | 0.347 | 0.089 | 0.139 | 9.760 |
| | 17-01-81 | 44622.617 | -1.155 | 0.093 | 0.351 | 0.084 | 0.138 | 9.762 |
| | 18-01-81 | 44623.554 | -1.152 | 0.094 | 0.348 | 0.082 | 0.138 | 9.755 |
| | 19-01-81 | 44624.547 | -1.152 | 0.094 | 0.345 | 0.087 | 0.140 | 9.755 |
| | 20-01-81 | 44625.549 | -1.160 | 0.096 | 0.341 | 0.095 | 0.140 | 9.775 |
| | 21-01-81 | 44626.547 | -1.160 | 0.096 | 0.349 | 0.089 | 0.141 | 9.775 |
| | 22-01-81 | 44627.544 | -1.152 | 0.095 | 0.343 | 0.090 | 0.140 | 9.755 |
| | 25-01-81 | 44631.647 | -1.152 | 0.092 | 0.341 | 0.092 | 0.137 | 9.755 |
| | 26-01-81 | 44632.619 | -1.152 | 0.095 | 0.348 | 0.086 | 0.140 | 9.755 |
| | 27-01-81 | 44633.545 | -1.152 | 0.093 | 0.342 | 0.091 | 0.139 | 9.755 |
| | 28-01-81 | 44634.598 | -1.153 | 0.094 | 0.346 | 0.088 | 0.140 | 9.757 |
| NV Ori | 16-12-85 | 46416.452 | -1.191 | 0.196 | 0.420 | 0.230 | 0.231 | 9.842 |
| | 27-12-85 | 46427.423 | -1.106 | 0.156 | 0.328 | 0.180 | 0.216 | 9.634 |
| | 28-12-85 | 46428.422 | -1.209 | 0.198 | 0.421 | 0.240 | 0.229 | 9.887 |
| | 07-01-86 | 46438.394 | -1.213 | 0.200 | 0.424 | 0.235 | 0.236 | 9.897 |
| | 13-01-86 | 46444.385 | -1.178 | 0.187 | 0.372 | 0.222 | 0.208 | 9.811 |
| | 21-01-86 | 46452.366 | -1.183 | 0.196 | 0.399 | 0.240 | 0.222 | 9.822 |
| V361 Ori | 24-12-80 | 44598.708 | -0.523 | 0.025 | 0.164 | 0.035 | 0.080 | 8.189 |
| | 25-12-80 | 44599.725 | -0.522 | 0.023 | 0.163 | 0.037 | 0.079 | 8.187 |
| | 27-12-80 | 44601.749 | -0.523 | 0.023 | 0.165 | 0.033 | 0.079 | 8.189 |
| | 30-12-80 | 44604.721 | -0.523 | 0.022 | 0.162 | 0.038 | 0.079 | 8.189 |
| | 02-01-81 | 44607.598 | -0.524 | 0.021 | 0.165 | 0.034 | 0.080 | 8.192 |
| | 12-01-81 | 44617.538 | -0.528 | 0.021 | 0.166 | 0.034 | 0.080 | 8.202 |
| | 17-01-81 | 44622.678 | -0.524 | 0.026 | 0.162 | 0.038 | 0.080 | 8.191 |
| | 22-01-81 | 44627.677 | -0.520 | 0.023 | 0.162 | 0.036 | 0.079 | 8.182 |
| | 26-01-81 | 44631.535 | -0.521 | 0.022 | 0.163 | 0.036 | 0.078 | 8.184 |
| T Ori | 22-12-80 | 44596.660 | -1.317 | 0.180 | 0.543 | 0.237 | 0.242 | 10.159 |
| | 24-12-80 | 44598.644 | -1.313 | 0.181 | 0.524 | 0.235 | 0.239 | 10.149 |
| | 25-12-80 | 44599.638 | -1.314 | 0.180 | 0.528 | 0.228 | 0.244 | 10.151 |
| | 27-12-80 | 44601.677 | -1.336 | 0.186 | 0.529 | 0.237 | 0.246 | 10.206 |
| | 28-12-80 | 44602.700 | -1.332 | 0.187 | 0.533 | 0.249 | 0.246 | 10.196 |

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| | 29-12-80 | 44603.548 | -1.346 | 0.191 | 0.532 | 0.250 | 0.248 | 10.230 |
| | 30-12-80 | 44604.690 | -1.325 | 0.186 | 0.533 | 0.241 | 0.242 | 10.178 |
| | 31-12-80 | 44605.618 | -1.319 | 0.183 | 0.530 | 0.239 | 0.244 | 10.164 |
| | 01-01-81 | 44606.627 | -1.329 | 0.187 | 0.521 | 0.244 | 0.243 | 10.188 |
| | 02-01-81 | 44607.635 | -1.329 | 0.188 | 0.526 | 0.238 | 0.239 | 10.188 |
| | 12-01-81 | 44617.639 | -1.525 | 0.221 | 0.555 | 0.259 | 0.265 | 10.675 |
| | 13-01-81 | 44618.600 | -1.492 | 0.217 | 0.553 | 0.264 | 0.263 | 10.593 |
| | 14-01-81 | 44619.624 | -1.594 | 0.227 | 0.508 | 0.237 | 0.248 | 10.847 |
| | 15-01-81 | 44620.604 | -1.629 | 0.240 | 0.531 | 0.257 | 0.256 | 10.933 |
| | 16-01-81 | 44621.611 | -1.583 | 0.239 | 0.539 | 0.280 | 0.265 | 10.818 |
| | 17-01-81 | 44622.617 | -1.417 | 0.206 | 0.566 | 0.258 | 0.259 | 10.406 |
| | 18-01-81 | 44623.553 | -1.402 | 0.207 | 0.549 | 0.286 | 0.263 | 10.369 |
| | 19-01-81 | 44624.545 | -1.455 | 0.218 | 0.558 | 0.289 | 0.264 | 10.500 |
| | 20-01-81 | 44625.548 | -1.638 | 0.250 | 0.590 | 0.313 | 0.283 | 10.955 |
| | 21-01-81 | 44626.548 | -1.674 | 0.262 | 0.596 | 0.325 | 0.286 | 11.043 |
| | 22-01-81 | 44627.547 | -1.598 | 0.240 | 0.528 | 0.285 | 0.270 | 10.856 |
| | 25-01-81 | 44630.542 | -1.582 | 0.219 | 0.551 | 0.268 | 0.264 | 10.818 |
| | 26-01-81 | 44631.560 | -1.659 | 0.216 | 0.532 | 0.276 | 0.271 | 11.010 |
| | 27-01-81 | 44632.544 | -1.588 | 0.253 | 0.552 | 0.301 | 0.276 | 10.829 |
| | 28-01-81 | 44633.597 | -1.653 | 0.249 | 0.539 | 0.276 | 0.270 | 10.992 |
| CQ Tau | 10-11-86 | 46744.837 | -1.396 | 0.328 | 0.547 | 0.353 | 0.320 | 10.342 |
| V380 Ori | 22-12-80 | 44596.742 | -1.478 | 0.230 | 0.259 | 0.027 | 0.159 | 10.557 |
| | 24-12-80 | 44598.728 | -1.469 | 0.225 | 0.244 | 0.023 | 0.153 | 10.535 |
| | 25-12-80 | 44599.611 | -1.460 | 0.226 | 0.232 | 0.029 | 0.147 | 10.512 |
| | 27-12-80 | 44601.599 | -1.466 | 0.223 | 0.239 | 0.029 | 0.154 | 10.527 |
| | 28-12-80 | 44602.729 | -1.476 | 0.223 | 0.255 | 0.023 | 0.156 | 10.552 |
| | 29-12-80 | 44603.627 | -1.472 | 0.223 | 0.255 | 0.020 | 0.154 | 10.542 |
| | 30-12-80 | 44604.608 | -1.476 | 0.224 | 0.256 | 0.033 | 0.156 | 10.552 |
| | 31-12-80 | 44605.603 | -1.474 | 0.224 | 0.257 | 0.030 | 0.156 | 10.547 |
| | 01-01-81 | 44606.665 | -1.474 | 0.227 | 0.253 | 0.033 | 0.157 | 10.547 |
| | 02-01-81 | 44607.655 | -1.453 | 0.228 | 0.236 | 0.040 | 0.146 | 10.494 |
| | 12-01-81 | 44617.692 | -1.461 | 0.222 | 0.234 | 0.031 | 0.151 | 10.515 |
| | 13-01-81 | 44618.623 | -1.441 | 0.227 | 0.219 | 0.033 | 0.144 | 10.464 |
| | 14-01-81 | 44619.708 | -1.454 | 0.226 | 0.212 | 0.026 | 0.139 | 10.497 |
| | 15-01-81 | 44620.652 | -1.454 | 0.224 | 0.219 | 0.028 | 0.146 | 10.497 |
| | 16-01-81 | 44621.653 | -1.457 | 0.227 | 0.230 | 0.035 | 0.144 | 10.504 |
| | 17-01-81 | 44622.565 | -1.458 | 0.225 | 0.235 | 0.023 | 0.149 | 10.507 |
| | 18-01-81 | 44623.627 | -1.442 | 0.227 | 0.218 | 0.029 | 0.140 | 10.467 |
| | 19-01-81 | 44624.608 | -1.453 | 0.223 | 0.222 | 0.024 | 0.143 | 10.495 |
| | 20-01-81 | 44625.610 | -1.508 | 0.246 | 0.239 | 0.023 | 0.148 | 10.630 |
| | 21-01-81 | 44626.560 | -1.501 | 0.245 | 0.237 | 0.051 | 0.156 | 10.613 |
| | 22-01-81 | 44627.602 | -1.436 | 0.225 | 0.218 | 0.037 | 0.143 | 10.452 |
| | 25-01-81 | 44630.585 | -1.449 | 0.223 | 0.220 | 0.027 | 0.143 | 10.485 |
| | 26-01-81 | 44631.599 | -1.450 | 0.228 | 0.232 | 0.030 | 0.145 | 10.487 |
| | 27-01-81 | 44632.611 | -1.464 | 0.226 | 0.241 | 0.030 | 0.152 | 10.522 |
| | 28-01-81 | 44633.617 | -1.460 | 0.226 | 0.242 | 0.031 | 0.152 | 10.512 |
| BN Ori | 13-02-85 | 46111.576 | -1.117 | 0.197 | 0.402 | 0.200 | 0.228 | 9.657 |
| | 24-02-85 | 46122.591 | -1.105 | 0.207 | 0.399 | 0.201 | 0.230 | 9.626 |
| | 28-12-85 | 46428.638 | -1.111 | 0.205 | 0.411 | 0.200 | 0.233 | 9.642 |
| | 30-12-85 | 46430.631 | -1.119 | 0.199 | 0.402 | 0.199 | 0.222 | 9.661 |
| | 06-01-86 | 46436.619 | -1.111 | 0.198 | 0.405 | 0.195 | 0.228 | 9.642 |
| | 12-01-86 | 46442.623 | -1.125 | 0.194 | 0.408 | 0.199 | 0.230 | 9.677 |
| | 13-01-86 | 46443.625 | -1.119 | 0.198 | 0.403 | 0.193 | 0.221 | 9.662 |
| | 20-01-86 | 46450.679 | -1.108 | 0.201 | 0.408 | 0.195 | 0.228 | 9.635 |
| | 21-01-86 | 46451.633 | -1.107 | 0.202 | 0.406 | 0.194 | 0.224 | 9.633 |
| | 22-01-86 | 46452.677 | -1.117 | 0.202 | 0.405 | 0.203 | 0.233 | 9.656 |
| | 10-11-86 | 46745.763 | -1.124 | 0.201 | 0.401 | 0.195 | 0.226 | 9.674 |
| V586 Ori | 22-12-80 | 44596.747 | -1.209 | 0.088 | 0.464 | 0.174 | 0.220 | 9.898 |
| | 24-12-80 | 44598.721 | -1.176 | 0.078 | 0.460 | 0.180 | 0.212 | 9.816 |

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| | 25-12-80 | 44599.604 | -1.168 | 0.074 | 0.446 | 0.161 | 0.206 | 9.797 |
| | 27-12-80 | 44601.599 | -1.172 | 0.070 | 0.449 | 0.166 | 0.210 | 9.807 |
| | 28-12-80 | 44602.730 | -1.152 | 0.065 | 0.441 | 0.154 | 0.206 | 9.758 |
| | 29-12-80 | 44603.629 | -1.141 | 0.060 | 0.444 | 0.157 | 0.205 | 9.731 |
| | 30-12-80 | 44604.608 | -1.134 | 0.060 | 0.438 | 0.141 | 0.198 | 9.713 |
| | 31-12-80 | 44605.603 | -1.143 | 0.064 | 0.438 | 0.143 | 0.203 | 9.735 |
| | 01-01-81 | 44606.656 | -1.156 | 0.069 | 0.438 | 0.145 | 0.202 | 9.767 |
| | 02-01-81 | 44607.655 | -1.177 | 0.077 | 0.450 | 0.154 | 0.207 | 9.819 |
| | 12-01-81 | 44617.692 | -1.134 | 0.064 | 0.462 | 0.187 | 0.209 | 9.713 |
| | 13-01-81 | 44618.623 | -1.141 | 0.067 | 0.460 | 0.181 | 0.210 | 9.730 |
| | 14-01-81 | 44619.708 | -1.158 | 0.072 | 0.466 | 0.186 | 0.217 | 9.772 |
| | 15-01-81 | 44620.652 | -1.175 | 0.077 | 0.468 | 0.183 | 0.217 | 9.814 |
| | 16-01-81 | 44621.653 | -1.161 | 0.076 | 0.470 | 0.182 | 0.210 | 9.779 |
| | 17-01-81 | 44622.565 | -1.169 | 0.076 | 0.462 | 0.170 | 0.215 | 9.799 |
| | 18-01-81 | 44623.631 | -1.219 | 0.094 | 0.482 | 0.189 | 0.228 | 9.922 |
| | 19-01-81 | 44624.608 | -1.184 | 0.082 | 0.466 | 0.182 | 0.219 | 9.836 |
| | 20-01-81 | 44625.610 | -1.204 | 0.087 | 0.468 | 0.179 | 0.217 | 9.886 |
| | 22-01-81 | 44627.602 | -1.212 | 0.092 | 0.484 | 0.210 | 0.223 | 9.905 |
| | 25-01-81 | 44630.585 | -1.230 | 0.102 | 0.502 | 0.216 | 0.232 | 9.949 |
| | 26-01-81 | 44631.599 | -1.158 | 0.079 | 0.475 | 0.198 | 0.219 | 9.771 |
| | 27-01-81 | 44632.611 | -1.283 | 0.101 | 0.457 | 0.151 | 0.216 | 10.082 |
| | 28-01-81 | 44633.617 | -1.162 | 0.077 | 0.460 | 0.162 | 0.213 | 9.781 |
| BF Ori | 22-12-80 | 44596.750 | -1.586 | 0.191 | 0.594 | 0.284 | 0.289 | 10.830 |
| | 24-12-80 | 44598.729 | -1.509 | 0.177 | 0.598 | 0.286 | 0.280 | 10.639 |
| | 25-12-80 | 44599.611 | -1.613 | 0.205 | 0.609 | 0.269 | 0.292 | 10.897 |
| | 27-12-80 | 44601.597 | -1.729 | 0.217 | 0.596 | 0.238 | 0.286 | 11.185 |
| | 28-12-80 | 44602.729 | -1.744 | 0.212 | 0.588 | 0.222 | 0.289 | 11.223 |
| | 29-12-80 | 44603.627 | -1.633 | 0.189 | 0.584 | 0.050 | 0.280 | 10.948 |
| | 30-12-80 | 44604.608 | -1.685 | 0.204 | 0.591 | 0.255 | 0.288 | 11.077 |
| | 31-12-80 | 44605.603 | -1.731 | 0.201 | 0.588 | 0.241 | 0.278 | 11.192 |
| | 01-01-81 | 44606.656 | -1.817 | 0.208 | 0.574 | 0.215 | 0.275 | 11.406 |
| | 02-01-81 | 44607.656 | -1.903 | 0.195 | 0.545 | 0.198 | 0.256 | 11.622 |
| | 12-01-81 | 44617.692 | -1.392 | 0.145 | 0.562 | 0.282 | 0.262 | 10.350 |
| | 13-01-81 | 44618.622 | -1.277 | 0.133 | 0.566 | 0.309 | 0.259 | 10.064 |
| | 14-01-81 | 44619.708 | -1.293 | 0.131 | 0.575 | 0.324 | 0.262 | 10.104 |
| | 15-01-81 | 44620.651 | -1.304 | 0.137 | 0.567 | 0.314 | 0.261 | 10.131 |
| | 16-01-81 | 44621.651 | -1.690 | 0.177 | 0.554 | 0.249 | 0.267 | 11.092 |
| | 17-01-81 | 44622.565 | -1.697 | 0.182 | 0.569 | 0.235 | 0.274 | 11.109 |
| | 18-01-81 | 44623.629 | -1.577 | 0.177 | 0.599 | 0.297 | 0.281 | 10.809 |
| | 19-01-81 | 44624.607 | -1.426 | 0.160 | 0.601 | 0.315 | 0.274 | 10.433 |
| | 20-01-81 | 44625.610 | -1.518 | 0.159 | 0.575 | 0.312 | 0.275 | 10.663 |
| | 22-01-81 | 44627.601 | -1.467 | 0.171 | 0.590 | 0.310 | 0.271 | 10.535 |
| | 24-01-81 | 44629.742 | -1.518 | 0.160 | 0.582 | 0.291 | 0.272 | 10.663 |
| | 25-01-81 | 44630.585 | -1.424 | 0.150 | 0.579 | 0.302 | 0.269 | 10.429 |
| | 26-01-81 | 44631.598 | -1.254 | 0.120 | 0.553 | 0.302 | 0.251 | 10.007 |
| | 27-01-81 | 44632.610 | -1.255 | 0.122 | 0.557 | 0.315 | 0.250 | 10.010 |
| | 28-01-81 | 44633.615 | -1.235 | 0.112 | 0.544 | 0.307 | 0.242 | 9.961 |
| HD 37411 | 21-09-90 | 48155.651 | -1.178 | 0.067 | 0.471 | 0.176 | 0.217 | 9.822 |
| | 27-09-90 | 48161.832 | -1.181 | 0.069 | 0.469 | 0.133 | 0.219 | 9.830 |
| V350 Ori | 28-02-88 | 47219.258 | -1.566 | 0.144 | 0.483 | 0.218 | 0.233 | 10.785 |
| | 01-03-88 | 47220.255 | -1.558 | 0.139 | 0.505 | 0.202 | 0.246 | 10.765 |
| | 02-03-88 | 47221.258 | -1.561 | 0.135 | 0.505 | 0.200 | 0.250 | 10.772 |
| | 03-02-90 | 47925.552 | -1.681 | 0.167 | 0.531 | 0.175 | 0.247 | 11.070 |
| HD 37806 | 23-12-80 | 44597.679 | -0.410 | 0.023 | 0.297 | 0.120 | 0.113 | 7.907 |
| | 25-12-80 | 44599.781 | -0.402 | 0.023 | 0.298 | 0.103 | 0.110 | 7.887 |
| | 27-12-80 | 44601.789 | -0.403 | 0.020 | 0.296 | 0.098 | 0.111 | 7.890 |
| | 30-12-80 | 44604.763 | -0.401 | 0.021 | 0.299 | 0.095 | 0.112 | 7.884 |
| | 02-01-81 | 44607.685 | -0.410 | 0.023 | 0.307 | 0.109 | 0.114 | 7.907 |
| | 12-01-81 | 44617.207 | -0.413 | 0.019 | 0.325 | 0.116 | 0.120 | 7.915 |

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|-----------|----------|-----------|--------|-------|-------|-------|-------|--------|
| | 17-01-81 | 44622.644 | -0.415 | 0.022 | 0.316 | 0.146 | 0.120 | 7.919 |
| | 22-01-81 | 44627.666 | -0.415 | 0.023 | 0.314 | 0.132 | 0.119 | 7.919 |
| | 25-01-81 | 44630.690 | -0.415 | 0.025 | 0.313 | 0.142 | 0.118 | 7.919 |
| V351 Ori | 25-12-85 | 46425.568 | -0.904 | 0.180 | 0.511 | 0.264 | 0.243 | 9.126 |
| | 27-12-85 | 46426.740 | -0.845 | 0.165 | 0.489 | 0.234 | 0.241 | 8.980 |
| | 05-01-86 | 46435.550 | -0.867 | 0.159 | 0.497 | 0.235 | 0.237 | 9.036 |
| | 09-01-86 | 46439.657 | -0.831 | 0.156 | 0.484 | 0.231 | 0.237 | 8.946 |
| | 13-01-86 | 46443.620 | -0.828 | 0.155 | 0.487 | 0.221 | 0.233 | 8.939 |
| | 13-01-86 | 46443.623 | -0.829 | 0.155 | 0.482 | 0.222 | 0.231 | 8.941 |
| | 20-01-86 | 46450.673 | -0.841 | 0.158 | 0.489 | 0.228 | 0.234 | 8.971 |
| | 21-01-86 | 46451.635 | -0.842 | 0.164 | 0.496 | 0.231 | 0.234 | 8.973 |
| FU Ori | 29-12-85 | 46428.638 | -0.997 | 0.606 | 0.591 | 0.454 | 0.436 | 9.317 |
| | 07-01-86 | 46437.636 | -0.996 | 0.605 | 0.594 | 0.445 | 0.442 | 9.315 |
| | 13-01-86 | 46444.628 | -0.966 | 0.616 | 0.625 | 0.449 | 0.445 | 9.239 |
| | 22-01-86 | 46452.677 | -0.973 | 0.606 | 0.611 | 0.413 | 0.427 | 9.257 |
| HD 250550 | 23-12-80 | 44597.687 | -1.067 | 0.024 | 0.260 | 0.074 | 0.105 | 9.549 |
| | 24-12-80 | 44598.746 | -1.064 | 0.025 | 0.252 | 0.081 | 0.105 | 9.542 |
| | 25-12-80 | 44599.710 | -1.061 | 0.024 | 0.256 | 0.080 | 0.108 | 9.534 |
| | 27-12-80 | 44601.735 | -1.069 | 0.021 | 0.287 | 0.080 | 0.116 | 9.554 |
| | 30-12-80 | 44604.706 | -1.066 | 0.018 | 0.282 | 0.084 | 0.117 | 9.547 |
| | 02-01-81 | 44607.675 | -1.065 | 0.023 | 0.263 | 0.079 | 0.108 | 9.544 |
| | 12-01-81 | 44617.618 | -1.070 | 0.026 | 0.273 | 0.087 | 0.111 | 9.556 |
| | 15-01-81 | 44620.636 | -1.059 | 0.019 | 0.268 | 0.083 | 0.115 | 9.530 |
| | 16-01-81 | 44621.627 | -1.067 | 0.022 | 0.266 | 0.080 | 0.111 | 9.549 |
| | 18-01-81 | 44623.616 | -1.059 | 0.020 | 0.260 | 0.085 | 0.108 | 9.530 |
| | 19-01-81 | 44624.624 | -1.058 | 0.027 | 0.254 | 0.080 | 0.108 | 9.526 |
| | 22-01-81 | 44627.617 | -1.061 | 0.027 | 0.255 | 0.082 | 0.105 | 9.534 |
| | 25-01-81 | 44630.612 | -1.068 | 0.028 | 0.269 | 0.083 | 0.115 | 9.551 |
| | 26-01-81 | 44631.585 | -1.069 | 0.024 | 0.283 | 0.084 | 0.114 | 9.554 |
| 17 Lep | 21-09-90 | 48155.862 | 0.746 | 0.103 | 0.496 | 0.294 | 0.160 | 5.009 |
| | 27-09-90 | 48161.849 | 0.763 | 0.092 | 0.488 | 0.280 | 0.151 | 4.968 |
| HD 45677 | 22-12-80 | 44596.774 | -0.721 | 0.034 | 0.040 | 0.042 | 0.037 | 8.683 |
| | 23-12-80 | 44597.699 | -0.742 | 0.029 | 0.062 | 0.039 | 0.042 | 8.736 |
| | 25-12-80 | 44599.788 | -0.708 | 0.036 | 0.042 | 0.042 | 0.039 | 8.650 |
| | 27-12-80 | 44601.797 | -0.739 | 0.028 | 0.061 | 0.040 | 0.044 | 8.729 |
| | 30-12-80 | 44604.771 | -0.744 | 0.030 | 0.063 | 0.047 | 0.046 | 8.741 |
| | 02-01-81 | 44607.692 | -0.729 | 0.030 | 0.051 | 0.039 | 0.042 | 8.704 |
| | 12-01-81 | 44617.749 | -0.717 | 0.036 | 0.057 | 0.043 | 0.045 | 8.673 |
| | 13-01-81 | 44618.744 | -0.719 | 0.034 | 0.061 | 0.043 | 0.043 | 8.678 |
| | 15-01-81 | 44620.669 | -0.708 | 0.036 | 0.035 | 0.046 | 0.036 | 8.650 |
| | 16-01-81 | 44621.668 | -0.732 | 0.030 | 0.047 | 0.041 | 0.041 | 8.711 |
| | 17-01-81 | 44622.729 | -0.743 | 0.029 | 0.071 | 0.042 | 0.049 | 8.739 |
| | 18-01-81 | 44623.716 | -0.721 | 0.030 | 0.064 | 0.042 | 0.044 | 8.684 |
| | 19-01-81 | 44624.712 | -0.720 | 0.032 | 0.053 | 0.044 | 0.040 | 8.681 |
| | 25-01-81 | 44630.718 | -0.717 | 0.031 | 0.063 | 0.043 | 0.043 | 8.673 |
| | 26-01-81 | 44631.733 | -0.727 | 0.030 | 0.063 | 0.041 | 0.045 | 8.699 |
| | 27-01-81 | 44632.731 | -0.727 | 0.032 | 0.066 | 0.042 | 0.044 | 8.698 |
| | 28-01-81 | 44633.720 | -0.720 | 0.032 | 0.060 | 0.040 | 0.045 | 8.681 |
| LkHa 215 | 23-12-80 | 44597.723 | -1.509 | 0.233 | 0.401 | 0.208 | 0.153 | 10.634 |
| | 25-12-80 | 44599.749 | -1.495 | 0.236 | 0.402 | 0.204 | 0.151 | 10.598 |
| | 27-12-80 | 44601.769 | -1.505 | 0.232 | 0.410 | 0.206 | 0.154 | 10.624 |
| | 28-12-80 | 44602.760 | -1.509 | 0.235 | 0.408 | 0.211 | 0.159 | 10.634 |
| | 30-12-80 | 44604.741 | -1.497 | 0.231 | 0.403 | 0.206 | 0.155 | 10.604 |
| | 02-01-81 | 44607.715 | -1.501 | 0.232 | 0.409 | 0.217 | 0.157 | 10.614 |
| | 12-01-81 | 44617.723 | -1.502 | 0.231 | 0.403 | 0.207 | 0.152 | 10.616 |
| | 14-01-81 | 44619.732 | -1.505 | 0.232 | 0.403 | 0.203 | 0.155 | 10.624 |
| | 15-01-81 | 44620.678 | -1.517 | 0.231 | 0.407 | 0.195 | 0.153 | 10.654 |

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|-----------|----------|-----------|--------|-------|-------|-------|-------|--------|
| | 16-01-81 | 44621.676 | -1.522 | 0.232 | 0.414 | 0.199 | 0.159 | 10.666 |
| | 17-01-81 | 44622.699 | -1.515 | 0.231 | 0.398 | 0.205 | 0.152 | 10.649 |
| | 18-01-81 | 44623.703 | -1.535 | 0.229 | 0.401 | 0.206 | 0.146 | 10.699 |
| | 19-01-81 | 44624.693 | -1.519 | 0.233 | 0.410 | 0.202 | 0.154 | 10.659 |
| | 20-01-81 | 44625.708 | -1.535 | 0.241 | 0.416 | 0.218 | 0.157 | 10.698 |
| | 22-01-81 | 44627.632 | -1.515 | 0.234 | 0.414 | 0.214 | 0.159 | 10.649 |
| | 25-01-81 | 44630.672 | -1.500 | 0.234 | 0.414 | 0.214 | 0.159 | 10.611 |
| | 26-01-81 | 44631.691 | -1.501 | 0.234 | 0.405 | 0.209 | 0.153 | 10.614 |
| | 27-01-81 | 44632.725 | -1.500 | 0.232 | 0.407 | 0.213 | 0.157 | 10.611 |
| | 28-01-81 | 44633.713 | -1.504 | 0.231 | 0.405 | 0.210 | 0.154 | 10.621 |
| HD 259431 | 23-12-80 | 44597.722 | -0.748 | 0.125 | 0.082 | 0.104 | 0.073 | 8.742 |
| | 25-12-80 | 44599.752 | -0.740 | 0.125 | 0.080 | 0.106 | 0.072 | 8.722 |
| | 27-12-80 | 44601.771 | -0.738 | 0.126 | 0.083 | 0.106 | 0.070 | 8.717 |
| | 28-12-80 | 44601.762 | -0.740 | 0.125 | 0.086 | 0.105 | 0.072 | 8.722 |
| | 30-12-80 | 44604.742 | -0.748 | 0.122 | 0.080 | 0.107 | 0.071 | 8.742 |
| | 02-01-81 | 44607.720 | -0.740 | 0.126 | 0.083 | 0.106 | 0.073 | 8.722 |
| | 12-01-81 | 44617.724 | -0.734 | 0.125 | 0.081 | 0.104 | 0.073 | 8.707 |
| | 17-01-81 | 44622.701 | -0.751 | 0.122 | 0.081 | 0.103 | 0.071 | 8.750 |
| | 19-01-81 | 44624.694 | -0.743 | 0.124 | 0.078 | 0.108 | 0.072 | 8.729 |
| | 22-01-81 | 44627.622 | -0.742 | 0.126 | 0.082 | 0.105 | 0.069 | 8.727 |
| | 25-01-81 | 44630.674 | -0.734 | 0.126 | 0.081 | 0.107 | 0.074 | 8.707 |
| | 26-01-81 | 44631.692 | -0.727 | 0.126 | 0.084 | 0.106 | 0.074 | 8.689 |
| | 28-01-81 | 44633.707 | -0.735 | 0.123 | 0.087 | 0.105 | 0.071 | 8.710 |
| | | | | | | | | |
| R Mon | 23-12-80 | 44597.723 | -2.211 | 0.288 | 0.178 | 0.170 | 0.138 | 12.383 |
| | 25-12-80 | 44599.748 | -2.201 | 0.282 | 0.167 | 0.181 | 0.143 | 12.359 |
| | 27-12-80 | 44601.769 | -2.196 | 0.280 | 0.155 | 0.195 | 0.141 | 12.347 |
| | 28-12-80 | 44602.757 | -2.190 | 0.286 | 0.155 | 0.196 | 0.139 | 12.331 |
| | 30-12-80 | 44604.741 | -2.207 | 0.287 | 0.155 | 0.196 | 0.135 | 12.374 |
| | 02-01-81 | 44607.715 | -2.196 | 0.282 | 0.165 | 0.164 | 0.134 | 12.347 |
| | 12-01-81 | 44617.722 | -2.189 | 0.280 | 0.164 | 0.172 | 0.144 | 12.329 |
| | 17-01-81 | 44622.699 | -2.207 | 0.277 | 0.159 | 0.176 | 0.154 | 12.374 |
| | 19-01-81 | 44624.693 | -2.203 | 0.289 | 0.147 | 0.200 | 0.121 | 12.363 |
| | 22-01-81 | 44627.633 | -2.201 | 0.281 | 0.155 | 0.200 | 0.142 | 12.359 |
| | 25-01-81 | 44630.671 | -2.220 | 0.286 | 0.163 | 0.178 | 0.130 | 12.406 |
| | 26-01-81 | 44631.691 | -2.205 | 0.294 | 0.164 | 0.188 | 0.138 | 12.368 |
| | 28-01-81 | 44633.709 | -2.190 | 0.286 | 0.167 | 0.165 | 0.134 | 12.331 |
| | | | | | | | | |
| HD 50138 | 23-12-80 | 44597.754 | 0.054 | 0.022 | 0.226 | 0.110 | 0.080 | 6.747 |
| | 24-12-80 | 44598.770 | 0.045 | 0.021 | 0.239 | 0.112 | 0.084 | 6.769 |
| | 25-12-80 | 44599.800 | 0.062 | 0.019 | 0.250 | 0.119 | 0.083 | 6.727 |
| | 27-12-80 | 44601.822 | 0.062 | 0.019 | 0.224 | 0.103 | 0.079 | 6.727 |
| | 30-12-80 | 44604.796 | 0.053 | 0.022 | 0.228 | 0.113 | 0.080 | 6.749 |
| | 31-12-80 | 44605.764 | 0.074 | 0.022 | 0.199 | 0.099 | 0.074 | 6.697 |
| | 12-01-81 | 44617.769 | 0.035 | 0.031 | 0.233 | 0.107 | 0.084 | 6.793 |
| | 13-01-81 | 44618.763 | 0.011 | 0.032 | 0.251 | 0.116 | 0.089 | 6.853 |
| | 14-01-81 | 44619.747 | 0.012 | 0.034 | 0.260 | 0.125 | 0.091 | 6.851 |
| | 15-01-81 | 44620.691 | 0.029 | 0.031 | 0.245 | 0.115 | 0.085 | 6.808 |
| | 16-01-81 | 44621.689 | 0.047 | 0.026 | 0.243 | 0.112 | 0.087 | 6.764 |
| | 17-01-81 | 44622.735 | 0.031 | 0.025 | 0.223 | 0.102 | 0.082 | 6.804 |
| | 18-01-81 | 44623.722 | 0.030 | 0.025 | 0.233 | 0.103 | 0.085 | 6.807 |
| | 19-01-81 | 44624.717 | 0.018 | 0.023 | 0.244 | 0.105 | 0.086 | 6.837 |
| | 20-01-81 | 44625.720 | 0.031 | 0.021 | 0.263 | 0.109 | 0.090 | 6.804 |
| | 22-01-81 | 44627.733 | 0.037 | 0.021 | 0.260 | 0.113 | 0.089 | 6.789 |
| | 25-01-81 | 44630.724 | 0.038 | 0.020 | 0.255 | 0.110 | 0.086 | 6.787 |
| | 26-01-81 | 44631.739 | 0.024 | 0.021 | 0.260 | 0.111 | 0.090 | 6.822 |
| | 27-01-81 | 44632.751 | 0.026 | 0.020 | 0.265 | 0.114 | 0.088 | 6.817 |
| | 28-01-81 | 44633.724 | 0.050 | 0.020 | 0.244 | 0.107 | 0.084 | 6.757 |
| | | | | | | | | |
| HD 52721 | 15-05-90 | 48027 | 0.153 | 0.036 | 0.016 | 0.011 | 0.018 | 6.498 |
| Z CMa | 23-12-80 | 44597.765 | -0.891 | 0.510 | 0.489 | 0.413 | 0.305 | 9.062 |
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| | 24-12-80 | 44598.779 | -0.887 | 0.508 | 0.488 | 0.403 | 0.304 | 9.052 |
| | 25-12-80 | 44599.792 | -0.889 | 0.509 | 0.493 | 0.407 | 0.307 | 9.057 |
| | 27-12-80 | 44601.808 | -0.882 | 0.506 | 0.482 | 0.404 | 0.301 | 9.040 |
| | 28-12-80 | 44602.822 | -0.883 | 0.506 | 0.481 | 0.403 | 0.307 | 9.042 |
| | 30-12-80 | 44604.783 | -0.896 | 0.514 | 0.476 | 0.407 | 0.306 | 9.074 |
| | 02-01-81 | 44607.738 | -0.907 | 0.518 | 0.490 | 0.397 | 0.315 | 9.101 |
| | 12-01-81 | 44617.715 | -0.903 | 0.523 | 0.498 | 0.411 | 0.317 | 9.091 |
| | 13-01-81 | 44618.752 | -0.906 | 0.520 | 0.492 | 0.402 | 0.310 | 9.098 |
| | 15-01-81 | 44620.701 | -0.908 | 0.524 | 0.497 | 0.405 | 0.319 | 9.103 |
| | 17-01-81 | 44622.745 | -0.909 | 0.522 | 0.480 | 0.405 | 0.314 | 9.106 |
| | 18-01-81 | 44623.742 | -0.914 | 0.519 | 0.497 | 0.399 | 0.316 | 9.118 |
| | 19-01-81 | 44624.726 | -0.911 | 0.520 | 0.511 | 0.414 | 0.317 | 9.111 |
| | 20-01-81 | 44625.742 | -0.911 | 0.520 | 0.505 | 0.425 | 0.321 | 9.111 |
| | 22-01-81 | 44627.720 | -0.923 | 0.525 | 0.500 | 0.415 | 0.321 | 9.140 |
| | 25-01-81 | 44630.733 | -0.935 | 0.526 | 0.494 | 0.405 | 0.326 | 9.170 |
| | 26-01-81 | 44631.748 | -0.944 | 0.531 | 0.492 | 0.404 | 0.323 | 9.192 |
| | 27-01-81 | 44632.759 | -0.947 | 0.530 | 0.493 | 0.421 | 0.330 | 9.200 |
| | 28-01-81 | 44633.727 | -0.951 | 0.531 | 0.480 | 0.418 | 0.325 | 9.210 |
| HD 53367 | 23-12-80 | 44597.766 | -0.029 | 0.202 | 0.045 | 0.105 | 0.054 | 6.937 |
| | 24-12-80 | 44598.776 | -0.026 | 0.202 | 0.042 | 0.108 | 0.054 | 6.929 |
| | 25-12-80 | 44599.795 | -0.030 | 0.203 | 0.044 | 0.105 | 0.053 | 6.939 |
| | 27-12-80 | 44601.810 | -0.029 | 0.202 | 0.043 | 0.105 | 0.053 | 6.937 |
| | 28-12-80 | 44602.824 | -0.028 | 0.203 | 0.043 | 0.105 | 0.053 | 6.934 |
| | 30-12-80 | 44604.784 | -0.031 | 0.202 | 0.042 | 0.105 | 0.052 | 6.942 |
| | 02-01-81 | 44607.740 | -0.027 | 0.201 | 0.045 | 0.103 | 0.054 | 6.932 |
| | 12-01-81 | 44617.759 | -0.029 | 0.202 | 0.044 | 0.105 | 0.054 | 6.937 |
| | 17-01-81 | 44622.747 | -0.024 | 0.203 | 0.041 | 0.107 | 0.053 | 6.924 |
| | 22-01-81 | 44627.722 | -0.025 | 0.203 | 0.042 | 0.104 | 0.053 | 6.927 |
| | 25-01-81 | 44630.735 | -0.022 | 0.202 | 0.043 | 0.103 | 0.055 | 6.919 |
| | 26-01-81 | 44631.750 | -0.025 | 0.203 | 0.045 | 0.104 | 0.055 | 6.927 |
| NX Pup | 03-03-83 | 45397.640 | -1.188 | 0.201 | 0.404 | 0.230 | 0.202 | 9.834 |
| | 15-12-85 | 46414.831 | -1.689 | 0.282 | 1.821 | -1.629 | 0.506 | 11.079 |
| | 27-12-85 | 46426.763 | -1.484 | 0.320 | 0.458 | 0.193 | 0.259 | 10.563 |
| | 28-12-85 | 46427.843 | -1.481 | 0.304 | 0.412 | 0.173 | 0.246 | 10.558 |
| | 29-12-85 | 46428.858 | -1.418 | 0.233 | 0.305 | 0.155 | 0.231 | 10.406 |
| | 30-12-85 | 46429.833 | -1.505 | 0.303 | 0.411 | 0.175 | 0.243 | 10.617 |
| | 31-12-85 | 46430.844 | -1.464 | 0.266 | 0.350 | 0.132 | 0.231 | 10.519 |
| | 01-01-86 | 46431.834 | -1.520 | 0.301 | 0.411 | 0.192 | 0.238 | 10.654 |
| | 03-01-86 | 46433.775 | -1.465 | 0.300 | 0.408 | 0.183 | 0.247 | 10.518 |
| | 09-01-86 | 46439.823 | -1.534 | 0.279 | 0.395 | 0.143 | 0.222 | 10.691 |
| | 10-01-86 | 46440.803 | -1.593 | 0.266 | 0.396 | 0.132 | 0.217 | 10.841 |
| | 18-01-86 | 46448.776 | -1.589 | 0.260 | 0.386 | 0.120 | 0.211 | 10.832 |
| | 19-01-86 | 46449.772 | -1.525 | 0.268 | 0.382 | 0.144 | 0.218 | 10.670 |
| | 20-01-86 | 46450.835 | -1.538 | 0.269 | 0.387 | 0.133 | 0.221 | 10.703 |
| | 21-01-86 | 46451.832 | -1.542 | 0.268 | 0.373 | 0.150 | 0.212 | 10.713 |
| HD 76534 | 15-03-84 | 45775 | -0.433 | 0.063 | 0.110 | 0.058 | 0.062 | 7.960 |
| | 15-05-90 | 48027 | -0.477 | 0.052 | 0.119 | 0.052 | 0.064 | 8.071 |
| HD 87643 | 22-12-80 | 44596.840 | -0.681 | 0.292 | 0.089 | 0.170 | 0.104 | 8.558 |
| | 23-12-80 | 44597.823 | -0.687 | 0.289 | 0.090 | 0.165 | 0.104 | 8.573 |
| | 25-12-80 | 44599.863 | -0.700 | 0.292 | 0.089 | 0.167 | 0.105 | 8.606 |
| | 28-12-80 | 44602.783 | -0.683 | 0.285 | 0.110 | 0.174 | 0.107 | 8.564 |
| | 29-12-80 | 44603.783 | -0.670 | 0.286 | 0.118 | 0.175 | 0.111 | 8.531 |
| | 30-12-80 | 44604.810 | -0.699 | 0.295 | 0.106 | 0.176 | 0.113 | 8.603 |
| | 31-12-80 | 44605.844 | -0.702 | 0.292 | 0.097 | 0.177 | 0.105 | 8.611 |
| | 01-01-81 | 44606.818 | -0.692 | 0.293 | 0.090 | 0.182 | 0.102 | 8.585 |
| | 12-01-81 | 44617.856 | -0.682 | 0.298 | 0.130 | 0.192 | 0.115 | 8.560 |
| | 14-01-81 | 44619.771 | -0.680 | 0.290 | 0.120 | 0.189 | 0.110 | 8.556 |
| | 15-01-81 | 44620.614 | -0.686 | 0.288 | 0.106 | 0.186 | 0.107 | 8.571 |
| | 16-01-81 | 44621.785 | -0.671 | 0.283 | 0.118 | 0.177 | 0.106 | 8.534 |

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| | 17-01-81 | 44622.834 | -0.689 | 0.283 | 0.124 | 0.180 | 0.111 | 8.579 |
| | 18-01-81 | 44623.779 | -0.683 | 0.287 | 0.088 | 0.174 | 0.103 | 8.564 |
| | 20-01-81 | 44625.798 | -0.686 | 0.280 | 0.110 | 0.168 | 0.109 | 8.572 |
| | 22-01-81 | 44627.756 | -0.697 | 0.299 | 0.094 | 0.177 | 0.109 | 8.597 |
| | 24-01-81 | 44629.769 | -0.723 | 0.286 | 0.089 | 0.167 | 0.103 | 8.664 |
| | 25-01-81 | 44630.761 | -0.751 | 0.296 | 0.080 | 0.158 | 0.106 | 8.733 |
| | 26-01-81 | 44631.769 | -0.757 | 0.296 | 0.082 | 0.165 | 0.108 | 8.748 |
| | 27-01-81 | 44632.846 | -0.753 | 0.296 | 0.077 | 0.160 | 0.109 | 8.738 |
| | 28-01-81 | 44633.787 | -0.732 | 0.295 | 0.088 | 0.174 | 0.107 | 8.685 |
| | 15-05-90 | 48027 | -0.816 | 0.287 | 0.133 | 0.159 | 0.117 | 8.896 |
| 17 Sex | 15-05-90 | 48027 | 0.393 | 0.013 | 0.423 | 0.155 | 0.120 | 5.900 |
| HR Car | 22-12-80 | 44596.840 | -0.620 | 0.398 | 0.161 | 0.198 | 0.130 | 8.395 |
| | 23-12-80 | 44597.820 | -0.620 | 0.398 | 0.163 | 0.196 | 0.129 | 8.395 |
| | 25-12-80 | 44599.860 | -0.622 | 0.401 | 0.166 | 0.203 | 0.130 | 8.400 |
| | 28-12-80 | 44602.783 | -0.625 | 0.400 | 0.168 | 0.196 | 0.129 | 8.408 |
| | 29-12-80 | 44603.783 | -0.628 | 0.401 | 0.166 | 0.196 | 0.130 | 8.415 |
| | 30-12-80 | 44604.808 | -0.628 | 0.397 | 0.168 | 0.199 | 0.129 | 8.415 |
| | 31-12-80 | 44605.844 | -0.624 | 0.398 | 0.164 | 0.200 | 0.130 | 8.405 |
| | 01-01-81 | 44606.818 | -0.621 | 0.397 | 0.162 | 0.197 | 0.129 | 8.398 |
| | 12-01-81 | 44617.856 | -0.615 | 0.397 | 0.164 | 0.192 | 0.131 | 8.383 |
| | 14-01-81 | 44619.772 | -0.619 | 0.396 | 0.165 | 0.198 | 0.129 | 8.393 |
| | 15-01-81 | 44620.814 | -0.620 | 0.399 | 0.163 | 0.197 | 0.130 | 8.395 |
| | 16-01-81 | 44621.785 | -0.620 | 0.398 | 0.168 | 0.196 | 0.131 | 8.395 |
| | 17-01-81 | 44622.834 | -0.619 | 0.401 | 0.171 | 0.201 | 0.134 | 8.392 |
| | 18-01-81 | 44623.779 | -0.619 | 0.400 | 0.168 | 0.202 | 0.133 | 8.393 |
| | 20-01-81 | 44625.798 | -0.624 | 0.402 | 0.167 | 0.200 | 0.132 | 8.405 |
| | 22-01-81 | 44627.755 | -0.618 | 0.402 | 0.169 | 0.200 | 0.130 | 8.390 |
| | 24-01-81 | 44629.769 | -0.611 | 0.401 | 0.168 | 0.197 | 0.132 | 8.372 |
| | 25-01-81 | 44630.761 | -0.603 | 0.402 | 0.170 | 0.191 | 0.131 | 8.352 |
| | 26-01-81 | 44631.770 | -0.604 | 0.402 | 0.169 | 0.194 | 0.133 | 8.355 |
| | 27-01-81 | 44632.846 | -0.608 | 0.400 | 0.168 | 0.192 | 0.132 | 8.365 |
| | 28-01-81 | 44633.788 | -0.610 | 0.401 | 0.166 | 0.196 | 0.129 | 8.370 |
| GG Car | 23-12-80 | 44597.778 | -0.786 | 0.253 | -0.068 | 0.114 | 0.039 | 8.824 |
| | 25-12-80 | 44599.851 | -0.792 | 0.250 | -0.066 | 0.113 | 0.039 | 8.840 |
| | 27-12-80 | 44601.870 | -0.743 | 0.244 | -0.020 | 0.110 | 0.040 | 8.718 |
| | 28-12-80 | 44602.846 | -0.728 | 0.245 | -0.038 | 0.114 | 0.040 | 8.680 |
| | 29-12-80 | 44603.794 | -0.720 | 0.241 | -0.042 | 0.117 | 0.039 | 8.661 |
| | 30-12-80 | 44604.847 | -0.738 | 0.254 | -0.047 | 0.120 | 0.042 | 8.704 |
| | 01-01-81 | 44606.840 | -0.729 | 0.252 | -0.059 | 0.113 | 0.038 | 8.682 |
| | 02-01-81 | 44607.860 | -0.744 | 0.256 | -0.061 | 0.119 | 0.036 | 8.719 |
| | 12-01-81 | 44617.865 | -0.667 | 0.236 | -0.024 | 0.111 | 0.045 | 8.528 |
| | 13-01-81 | 44618.848 | -0.747 | 0.245 | -0.027 | 0.111 | 0.046 | 8.728 |
| | 14-01-81 | 44619.789 | -0.739 | 0.249 | -0.053 | 0.115 | 0.041 | 8.707 |
| | 15-01-81 | 44620.825 | -0.764 | 0.246 | -0.059 | 0.112 | 0.037 | 8.770 |
| | 16-01-81 | 44621.794 | -0.783 | 0.252 | -0.088 | 0.113 | 0.032 | 8.817 |
| | 17-01-81 | 44622.797 | -0.781 | 0.245 | -0.074 | 0.107 | 0.035 | 8.813 |
| | 18-01-81 | 44623.853 | -0.808 | 0.240 | -0.062 | 0.111 | 0.042 | 8.881 |
| | 19-01-81 | 44624.824 | -0.776 | 0.240 | -0.054 | 0.110 | 0.036 | 8.801 |
| | 20-01-81 | 44625.808 | -0.771 | 0.237 | -0.075 | 0.110 | 0.033 | 8.788 |
| | 22-01-81 | 44627.765 | -0.796 | 0.253 | -0.080 | 0.114 | 0.035 | 8.849 |
| | 24-01-81 | 44629.796 | -0.806 | 0.245 | -0.014 | 0.128 | 0.049 | 8.875 |
| | 25-01-81 | 44630.786 | -0.795 | 0.255 | 0.001 | 0.128 | 0.053 | 8.847 |
| | 26-01-81 | 44631.779 | -0.778 | 0.252 | -0.024 | 0.118 | 0.049 | 8.804 |
| | 27-01-81 | 44632.855 | -0.756 | 0.253 | -0.035 | 0.120 | 0.048 | 8.749 |
| | 28-01-81 | 44633.796 | -0.740 | 0.246 | -0.031 | 0.112 | 0.047 | 8.710 |
| AG Car | 23-12-80 | 44597.780 | 0.014 | 0.267 | 0.043 | 0.130 | 0.062 | 6.823 |
| | 25-12-80 | 44599.852 | 0.018 | 0.268 | 0.045 | 0.131 | 0.063 | 6.813 |
| | 27-12-80 | 44601.869 | 0.026 | 0.272 | 0.043 | 0.130 | 0.061 | 6.792 |
| | 28-12-80 | 44602.846 | 0.026 | 0.273 | 0.043 | 0.132 | 0.063 | 6.792 |

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|-----------|----------|-----------|--------|--------|-------|-------|-------|--------|
| | 29-12-80 | 44603.794 | 0.028 | 0.273 | 0.042 | 0.134 | 0.061 | 6.787 |
| | 30-12-80 | 44604.847 | 0.025 | 0.273 | 0.041 | 0.133 | 0.060 | 6.795 |
| | 01-01-81 | 44606.840 | 0.034 | 0.273 | 0.043 | 0.135 | 0.063 | 6.772 |
| | 12-01-81 | 44617.865 | 0.087 | 0.277 | 0.038 | 0.149 | 0.064 | 6.639 |
| | 13-01-81 | 44618.849 | 0.091 | 0.278 | 0.040 | 0.140 | 0.064 | 6.629 |
| | 14-01-81 | 44619.789 | 0.093 | 0.276 | 0.040 | 0.141 | 0.064 | 6.625 |
| | 15-01-81 | 44620.825 | 0.096 | 0.278 | 0.037 | 0.145 | 0.064 | 6.617 |
| | 16-01-81 | 44621.794 | 0.099 | 0.278 | 0.038 | 0.144 | 0.064 | 6.609 |
| | 17-01-81 | 44622.796 | 0.103 | 0.279 | 0.038 | 0.143 | 0.065 | 6.599 |
| | 18-01-81 | 44623.769 | 0.108 | 0.279 | 0.037 | 0.140 | 0.064 | 6.587 |
| | 19-01-81 | 44624.824 | 0.112 | 0.280 | 0.035 | 0.140 | 0.062 | 6.577 |
| | 20-01-81 | 44625.808 | 0.116 | 0.280 | 0.034 | 0.139 | 0.063 | 6.567 |
| | 22-01-81 | 44627.764 | 0.123 | 0.278 | 0.033 | 0.138 | 0.065 | 6.549 |
| | 24-01-81 | 44629.796 | 0.133 | 0.278 | 0.033 | 0.135 | 0.064 | 6.524 |
| | 25-01-81 | 44630.789 | 0.136 | 0.278 | 0.033 | 0.143 | 0.064 | 6.517 |
| | 26-01-81 | 44631.779 | 0.138 | 0.279 | 0.033 | 0.136 | 0.064 | 6.512 |
| | 27-01-81 | 44632.855 | 0.144 | 0.278 | 0.036 | 0.136 | 0.066 | 6.497 |
| | 28-01-81 | 44633.796 | 0.147 | 0.279 | 0.036 | 0.136 | 0.065 | 6.489 |
| HD 96706 | 15-05-90 | 48027 | 0.521 | -0.017 | 0.096 | 0.011 | 0.034 | 5.583 |
| | 15-06-90 | 48058 | 0.519 | -0.018 | 0.097 | 0.009 | 0.034 | 5.588 |
| CD-76 486 | 23-12-80 | 44597.792 | -1.544 | 0.528 | 0.511 | 0.305 | 0.366 | 10.693 |
| | 25-12-80 | 44599.820 | -1.554 | 0.528 | 0.504 | 0.349 | 0.385 | 10.718 |
| | 27-12-80 | 44601.847 | -1.552 | 0.542 | 0.518 | 0.317 | 0.381 | 10.711 |
| | 28-12-80 | 44602.801 | -1.545 | 0.523 | 0.501 | 0.325 | 0.370 | 10.696 |
| | 29-12-80 | 44603.808 | -1.548 | 0.525 | 0.520 | 0.361 | 0.382 | 10.703 |
| | 30-12-80 | 44604.826 | -1.556 | 0.528 | 0.506 | 0.366 | 0.379 | 10.723 |
| | 31-12-80 | 44605.854 | -1.545 | 0.535 | 0.520 | 0.336 | 0.378 | 10.694 |
| | 01-01-81 | 44606.854 | -1.562 | 0.552 | 0.559 | 0.305 | 0.405 | 10.735 |
| | 12-01-81 | 44617.793 | -1.540 | 0.523 | 0.500 | 0.344 | 0.371 | 10.683 |
| | 13-01-81 | 44618.860 | -1.558 | 0.540 | 0.551 | 0.313 | 0.393 | 10.726 |
| | 14-01-81 | 44619.810 | -1.549 | 0.525 | 0.512 | 0.329 | 0.377 | 10.705 |
| | 15-01-81 | 44620.839 | -1.542 | 0.523 | 0.486 | 0.328 | 0.371 | 10.688 |
| | 16-01-81 | 44621.808 | -1.556 | 0.524 | 0.510 | 0.331 | 0.384 | 10.723 |
| | 17-01-81 | 44622.810 | -1.540 | 0.515 | 0.480 | 0.332 | 0.367 | 10.684 |
| | 18-01-81 | 44623.791 | -1.559 | 0.525 | 0.505 | 0.317 | 0.382 | 10.730 |
| | 19-01-81 | 44624.837 | -1.549 | 0.526 | 0.500 | 0.308 | 0.373 | 10.705 |
| | 20-01-81 | 44625.819 | -1.555 | 0.522 | 0.491 | 0.340 | 0.382 | 10.721 |
| | 22-01-81 | 44627.776 | -1.545 | 0.525 | 0.499 | 0.356 | 0.368 | 10.695 |
| | 24-01-81 | 44629.809 | -1.550 | 0.526 | 0.517 | 0.348 | 0.389 | 10.708 |
| | 25-01-81 | 44630.801 | -1.549 | 0.526 | 0.502 | 0.396 | 0.381 | 10.705 |
| | 26-01-81 | 44631.792 | -1.557 | 0.529 | 0.516 | 0.347 | 0.380 | 10.725 |
| | 27-01-81 | 44632.867 | -1.542 | 0.531 | 0.515 | 0.321 | 0.376 | 10.687 |
| | 28-01-81 | 44633.858 | -1.559 | 0.528 | 0.515 | 0.335 | 0.381 | 10.730 |
| HD 97048 | 23-12-80 | 44597.792 | -0.640 | 0.159 | 0.511 | 0.174 | 0.219 | 8.468 |
| | 25-12-80 | 44599.819 | -0.640 | 0.158 | 0.511 | 0.176 | 0.219 | 8.469 |
| | 27-12-80 | 44601.847 | -0.643 | 0.158 | 0.512 | 0.172 | 0.219 | 8.476 |
| | 28-12-80 | 44602.801 | -0.643 | 0.158 | 0.508 | 0.176 | 0.218 | 8.476 |
| | 29-12-80 | 44603.808 | -0.640 | 0.158 | 0.517 | 0.173 | 0.222 | 8.469 |
| | 30-12-80 | 44604.822 | -0.641 | 0.157 | 0.512 | 0.175 | 0.220 | 8.471 |
| | 31-12-80 | 44605.860 | -0.639 | 0.157 | 0.514 | 0.175 | 0.219 | 8.466 |
| | 01-01-81 | 44606.854 | -0.640 | 0.155 | 0.515 | 0.178 | 0.219 | 8.469 |
| | 12-01-81 | 44617.794 | -0.640 | 0.158 | 0.511 | 0.182 | 0.222 | 8.469 |
| | 13-01-81 | 44618.860 | -0.641 | 0.156 | 0.514 | 0.171 | 0.219 | 8.471 |
| | 14-01-81 | 44619.810 | -0.636 | 0.157 | 0.507 | 0.176 | 0.218 | 8.459 |
| | 15-01-81 | 44620.840 | -0.633 | 0.156 | 0.502 | 0.175 | 0.219 | 8.451 |
| | 16-01-81 | 44621.808 | -0.638 | 0.155 | 0.500 | 0.177 | 0.217 | 8.464 |
| | 17-01-81 | 44622.810 | -0.635 | 0.156 | 0.517 | 0.173 | 0.221 | 8.456 |
| | 18-01-81 | 44623.792 | -0.634 | 0.156 | 0.505 | 0.175 | 0.218 | 8.454 |
| | 19-01-81 | 44624.837 | -0.635 | 0.155 | 0.507 | 0.176 | 0.217 | 8.456 |
| | 20-01-81 | 44625.820 | -0.638 | 0.156 | 0.506 | 0.178 | 0.217 | 8.464 |

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|-------------|----------|-----------|---------|--------|--------|---------|---------|---------|
| | 22-01-81 | 44627.777 | -0.636 | 0.157 | 0.504 | 0.175 | 0.217 | 8.459 |
| | 24-01-81 | 44629.810 | -0.635 | 0.156 | 0.514 | 0.172 | 0.220 | 8.456 |
| | 25-01-81 | 44630.801 | -0.632 | 0.154 | 0.509 | 0.174 | 0.217 | 8.449 |
| | 26-01-81 | 44631.792 | -0.635 | 0.156 | 0.510 | 0.174 | 0.219 | 8.456 |
| | 27-01-81 | 44632.868 | -0.641 | 0.155 | 0.512 | 0.172 | 0.220 | 8.471 |
| | 28-01-81 | 44633.857 | -0.635 | 0.154 | 0.510 | 0.167 | 0.218 | 8.456 |
| HD 97240 | 15-05-90 | 48027 | -0.649 | 0.189 | 0.314 | 0.178 | 0.212 | 8.488 |
| | 15-06-90 | 48058 | -0.653 | 0.188 | 0.313 | 0.170 | 0.209 | 8.498 |
| HD 98922 | 15-05-90 | 48027 | 0.045 | 0.020 | 0.408 | 0.119 | 0.118 | 6.770 |
| | 15-06-90 | 48058 | 0.040 | 0.021 | 0.407 | 0.124 | 0.115 | 6.782 |
| HD 100546 | 15-05-90 | 48027 | 0.078 | 0.002 | 0.376 | 0.078 | 0.154 | 6.689 |
| | 15-06-90 | 48058 | 0.079 | 0.002 | 0.369 | 0.078 | 0.150 | 6.686 |
| HD 104237 | 15-05-90 | 48027 | 0.120 | 0.091 | 0.384 | 0.104 | 0.197 | 6.575 |
| | 15-06-90 | 48058 | 0.115 | 0.097 | 0.414 | 0.114 | 0.206 | 6.587 |
| HD 105234 | 15-05-90 | 48027 | -0.241 | 0.110 | 0.399 | 0.148 | 0.206 | 7.476 |
| | 15-06-90 | 48058 | -0.241 | 0.112 | 0.393 | 0.153 | 0.199 | 7.476 |
| LSS 3027B | 03-08-85 | 46281 | -3.352: | 0.489: | 0.201: | -0.093: | -0.006: | 15.216: |
| CD-33 10685 | 17-01-81 | 44622.863 | -1.356 | 0.582 | 0.601 | 0.328 | 0.510 | 10.217 |
| | 18-01-81 | 44623.863 | -1.360 | 0.573 | 0.586 | 0.337 | 0.507 | 10.228 |
| | 19-01-81 | 44624.868 | -1.371 | 0.581 | 0.580 | 0.329 | 0.515 | 10.255 |
| | 20-01-81 | 44625.871 | -1.364 | 0.580 | 0.560 | 0.344 | 0.500 | 10.237 |
| | 22-01-81 | 44627.877 | -1.357 | 0.588 | 0.587 | 0.365 | 0.510 | 10.219 |
| | 24-01-81 | 44629.856 | -1.368 | 0.582 | 0.578 | 0.333 | 0.511 | 10.247 |
| | 26-01-81 | 44631.849 | -1.351 | 0.570 | 0.557 | 0.344 | 0.498 | 10.206 |
| | 27-01-81 | 44632.881 | -1.373 | 0.592 | 0.624 | 0.340 | 0.522 | 10.259 |
| | 28-01-81 | 44633.877 | -1.371 | 0.596 | 0.607 | 0.277 | 0.530 | 10.253 |
| HD 140817 | 15-05-90 | 48027 | 0.020 | 0.008 | 0.359 | 0.081 | 0.152 | 6.833 |
| | 15-06-90 | 48058 | 0.018 | 0.013 | 0.358 | 0.082 | 0.146 | 6.838 |
| HR 5999 | 02-09-82 | 45215 | -0.189 | 0.167 | 0.490 | 0.207 | 0.199 | 7.319 |
| | 03-09-82 | 45216 | -0.160 | 0.154 | 0.485 | 0.210 | 0.220 | 7.248 |
| | 10-09-83 | 45587.515 | -0.074 | 0.158 | 0.504 | 0.234 | 0.230 | 7.054 |
| | 11-09-83 | 45588.516 | -0.084 | 0.158 | 0.509 | 0.252 | 0.231 | 7.079 |
| | 10-07-85 | 46256.578 | 0.129 | 0.139 | 0.470 | 0.210 | 0.211 | 6.548 |
| | 10-07-85 | 46256.580 | 0.123 | 0.139 | 0.470 | 0.212 | 0.209 | 6.563 |
| | 16-08-86 | 46659 | 0.026 | 0.140 | 0.476 | 0.211 | 0.488 | 6.805 |
| | 16-08-86 | 46659 | 0.022 | 0.142 | 0.479 | 0.213 | 0.220 | 6.816 |
| | 18-08-86 | 46659 | 0.009 | 0.143 | 0.482 | 0.224 | 0.216 | 6.847 |
| HR 6000 | 02-09-82 | 45215 | 0.065 | -0.002 | 0.198 | 0.032 | 0.055 | 6.722 |
| | 03-09-82 | 45216 | 0.095 | -0.002 | 0.198 | 0.034 | 0.071 | 6.647 |
| | 10-09-83 | 45587.514 | 0.080 | -0.023 | 0.190 | 0.039 | 0.071 | 6.686 |
| | 11-09-83 | 45588.515 | 0.086 | -0.024 | 0.205 | 0.045 | 0.080 | 6.671 |
| | 10-07-85 | 46256.578 | 0.090 | -0.023 | 0.200 | 0.034 | 0.068 | 6.661 |
| | 10-07-85 | 46256.579 | 0.093 | -0.023 | 0.197 | 0.036 | 0.070 | 6.653 |
| | 10-07-85 | 46256.581 | 0.093 | -0.022 | 0.197 | 0.037 | 0.069 | 6.653 |
| HD 150193 | 05-06-83 | 45491 | -0.806 | 0.236 | 0.544 | 0.198 | 0.261 | 8.876 |
| | 07-08-83 | 45554 | -0.792 | 0.236 | 0.536 | 0.197 | 0.258 | 8.841 |
| | 01-08-85 | 46279 | -0.778 | 0.223 | 0.533 | 0.189 | 0.260 | 8.807 |
| AK Sco | 16-08-86 | 46659 | -0.852 | 0.291 | 0.391 | 0.269 | 0.273 | 8.986 |
| | 18-08-86 | 46661 | -0.780 | 0.262 | 0.376 | 0.237 | 0.263 | 8.807 |
| | 18-08-86 | 46661 | -0.779 | 0.143 | 0.482 | 0.224 | 0.216 | 8.819 |

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|-------------|----------|-----------|--------|-------|--------|--------|-------|--------|
| CD-42 11721 | 01-08-85 | 46279 | -1.765 | 0.534 | 0.150 | 0.276 | 0.195 | 11.244 |
| | 15-08-86 | 46658 | -1.734 | 0.562 | 0.263 | 0.131 | 0.190 | 11.164 |
| | 15-08-86 | 46658 | -1.727 | 0.559 | 0.252 | 0.154 | 0.159 | 11.146 |
| | 16-08-86 | 46659 | -1.743 | 0.585 | 0.122 | 0.250 | 0.148 | 11.184 |
| KK Oph | 07-06-83 | 45493 | -2.010 | 0.291 | 0.461 | 0.168 | 0.214 | 11.881 |
| | 07-06-83 | 45493 | -2.000 | 0.293 | 0.451 | 0.177 | 0.213 | 11.855 |
| | 01-08-85 | 46279 | -2.186 | 0.289 | 0.488 | 0.147 | 0.238 | 12.321 |
| 51 Oph | 15-05-90 | 48027 | 0.831 | 0.005 | 0.410 | 0.126 | 0.123 | 4.806 |
| | 15-06-90 | 48058 | 0.834 | 0.009 | 0.408 | 0.130 | 0.122 | 4.798 |
| XX Oph | 10-08-78 | 43731 | -0.828 | 0.401 | 0.224 | 0.220 | 0.152 | 8.915 |
| | 11-08-78 | 43732 | -0.816 | 0.398 | 0.220 | 0.250 | 0.157 | 8.885 |
| | 12-08-78 | 43733 | -0.819 | 0.404 | 0.225 | 0.287 | 0.147 | 8.892 |
| | 15-08-78 | 43736 | -0.833 | 0.402 | 0.254 | 0.325 | 0.155 | 8.927 |
| | 16-08-78 | 43737 | -0.850 | 0.410 | 0.246 | 0.315 | 0.163 | 8.969 |
| | 17-08-78 | 43738 | -0.798 | 0.402 | 0.235 | 0.271 | 0.142 | 8.840 |
| | 18-08-78 | 43739 | -0.897 | 0.441 | 0.260 | 0.227 | 0.172 | 9.084 |
| | 19-08-78 | 43740 | -0.831 | 0.394 | 0.241 | -- | 0.145 | 8.923 |
| | 22-08-78 | 43743 | -0.824 | 0.401 | 0.207 | 0.243 | 0.158 | 8.905 |
| | 24-08-78 | 43745 | -0.815 | 0.404 | 0.219 | 0.257 | 0.143 | 8.882 |
| | 01-08-85 | 46279 | -0.799 | 0.420 | 0.237 | 0.312 | 0.155 | 8.841 |
| HD 163296 | 15-09-80 | 44498 | -0.019 | 0.008 | 0.405 | 0.136 | 0.187 | 6.931 |
| | 05-06-83 | 45491 | 0.003 | 0.046 | 0.425 | 0.149 | 0.200 | 6.872 |
| | 07-06-83 | 45493 | 0.008 | 0.049 | 0.416 | 0.124 | 0.198 | 6.859 |
| | 30-07-86 | 46641.596 | 0.000 | 0.046 | 0.404 | 0.123 | 0.186 | 6.880 |
| | 31-07-86 | 46642.599 | 0.004 | 0.045 | 0.413 | 0.120 | 0.187 | 6.870 |
| | 03-08-86 | 46645.530 | -0.016 | 0.050 | 0.415 | 0.127 | 0.194 | 6.919 |
| | 15-08-86 | 46658 | 0.009 | 0.052 | 0.418 | 0.129 | 0.194 | 6.857 |
| | 16-08-86 | 46659 | 0.011 | 0.049 | 0.419 | 0.122 | 0.195 | 6.853 |
| LkHa 108 | 01-08-85 | 46279 | -1.920 | 0.176 | 0.283 | 0.152 | 0.151 | 11.667 |
| | 02-08-85 | 46280 | -1.935 | 0.151 | 0.299 | 0.118 | 0.171 | 11.707 |
| LkHa 112 | 01-08-85 | 46279 | -1.238 | 0.090 | 0.038 | 0.059 | 0.046 | 9.970 |
| | 02-08-85 | 46280 | -1.228 | 0.091 | 0.043 | 0.056 | 0.049 | 9.945 |
| HD 164906 | 01-08-85 | 46279 | -0.247 | 0.083 | -0.009 | 0.034 | 0.014 | 7.493 |
| | 02-08-85 | 46280 | -0.247 | 0.084 | -0.009 | 0.031 | 0.017 | 7.493 |
| | 16-08-86 | 46659 | -0.246 | 0.096 | 0.000 | 0.057 | 0.287 | 7.490 |
| LkHa 115 | 01-08-85 | 46279 | -2.033 | 0.168 | 0.289 | 0.035 | 0.139 | 11.950 |
| | 01-08-85 | 46279 | -2.031 | 0.165 | 0.264 | 0.064 | 0.122 | 11.945 |
| | 02-08-85 | 46280 | -2.036 | 0.174 | 0.248 | 0.108 | 0.127 | 11.957 |
| LkHa 118 | 07-06-83 | 45493 | -1.715 | 0.371 | 0.154 | 0.183 | 0.130 | 11.135 |
| | 07-06-83 | 45493 | -1.722 | 0.366 | 0.154 | 0.194 | 0.143 | 11.153 |
| | 01-08-85 | 46279 | -1.728 | 0.365 | 0.162 | 0.195 | 0.142 | 11.168 |
| | 01-08-85 | 46279 | -1.730 | 0.365 | 0.148 | 0.222 | 0.132 | 11.173 |
| | 02-08-85 | 46280 | -1.719 | 0.376 | 0.158 | 0.192 | 0.136 | 11.145 |
| LkHa 119 | 07-06-83 | 45493 | -2.132 | 0.353 | 0.361 | 0.150 | 0.189 | 12.180 |
| | 07-06-83 | 45493 | -2.136 | 0.350 | 0.325 | 0.203 | 0.201 | 12.190 |
| | 01-08-85 | 46279 | -2.142 | 0.342 | 0.385 | 0.180 | 0.193 | 12.206 |
| | 01-08-85 | 46279 | -2.140 | 0.350 | 0.334 | 0.309 | 0.192 | 12.200 |
| | 02-08-85 | 46280 | -2.131 | 0.368 | 0.316 | 0.293 | 0.158 | 12.176 |
| MWC 297 | 10-08-78 | 43731 | -2.295 | 0.844 | 0.692 | -- | 0.124 | 12.539 |
| | 11-08-78 | 43732 | -2.251 | 0.877 | 0.485 | -- | 0.136 | 12.426 |
| | 12-08-78 | 43733 | -2.244 | 0.928 | 0.026 | -0.570 | 0.234 | 12.404 |
| | 19-08-78 | 43740 | -2.335 | 0.942 | 0.576 | -- | 0.399 | 12.630 |

| | | | | | | | | |
|-----------|----------|-------|---------|--------|--------|---------|--------|---------|
| | 24-08-78 | 43745 | -2.257 | 0.837 | 0.330 | -- | 0.109 | 12.445 |
| | 02-08-85 | 46280 | -2.190 | 0.922 | 0.677 | -0.445 | 0.304 | 12.269 |
| VV Ser | 02-08-85 | 46280 | -2.186 | 0.410 | 0.676 | 0.267 | 0.316 | 12.309 |
| MWC 300 | 02-08-85 | 46280 | -1.955 | 0.441 | 0.249 | 0.201 | 0.146 | 11.729 |
| AS 310 | 02-08-85 | 46280 | -2.253 | 0.446 | 0.291 | 0.180 | 0.181 | 12.473 |
| HD 176269 | 15-05-90 | 48027 | 0.057 | 0.011 | 0.315 | 0.058 | 0.110 | 6.740 |
| | 15-06-90 | 48058 | 0.065 | -0.009 | 0.318 | 0.062 | 0.115 | 6.722 |
| HD 176270 | 15-06-90 | 48058 | 0.175 | -0.001 | 0.267 | 0.051 | 0.111 | 6.447 |
| S CrA | 06-08-78 | 43727 | -1.726 | 0.282 | 0.075 | 0.274 | 0.098 | 11.172 |
| | 10-08-78 | 43731 | -1.814 | 0.314 | 0.105 | 0.030 | 0.106 | 11.388 |
| | 12-08-78 | 43733 | -1.849 | 0.353 | 0.178 | 0.178 | 0.165 | 11.472 |
| | 14-08-78 | 43735 | -1.802 | 0.333 | 0.014 | 0.092 | 0.052 | 11.357 |
| | 17-08-78 | 43738 | -1.812 | 0.334 | 0.136 | 0.204 | 0.104 | 11.381 |
| | 19-08-78 | 43740 | -1.967 | 0.392 | 0.070 | -- | 0.037 | 11.763 |
| | 22-08-78 | 43743 | -1.783 | 0.318 | 0.129 | -- | 0.032 | 11.310 |
| | 24-08-78 | 43745 | -1.436 | 0.197 | -0.018 | 0.403 | 0.009 | 10.455 |
| HD 176386 | 06-08-78 | 43727 | -0.207 | 0.037 | 0.381 | 0.097 | 0.141 | 7.398 |
| | 10-08-78 | 43731 | -0.186 | 0.049 | 0.384 | 0.088 | 0.143 | 7.344 |
| | 11-08-78 | 43732 | -0.222 | 0.074 | 0.406 | 0.093 | 0.152 | 7.432 |
| | 12-08-78 | 43733 | -0.181 | 0.050 | 0.385 | 0.099 | 0.152 | 7.332 |
| | 14-08-78 | 43735 | -0.194 | 0.055 | 0.385 | 0.114 | 0.149 | 7.364 |
| | 17-08-78 | 43738 | -0.200 | 0.037 | 0.375 | 0.073 | 0.134 | 7.380 |
| | 19-08-78 | 43740 | -0.178 | 0.047 | 0.379 | 0.207 | 0.148 | 7.324 |
| | 22-08-78 | 43743 | -0.186 | 0.060 | 0.384 | 0.067 | 0.143 | 7.343 |
| | 10-09-80 | 44493 | -0.165 | 0.057 | 0.381 | 0.098 | 0.143 | 7.291 |
| | 01-08-85 | 46279 | -0.169 | 0.053 | 0.387 | 0.097 | 0.156 | 7.301 |
| | 02-08-85 | 46280 | -0.167 | 0.053 | 0.386 | 0.096 | 0.155 | 7.296 |
| TY CrA | 06-08-78 | 43727 | -1.066 | 0.195 | 0.417 | 0.087 | 0.187 | 9.530 |
| | 10-08-78 | 43731 | -1.135 | 0.200 | 0.416 | 0.108 | 0.181 | 9.702 |
| | 11-08-78 | 43732 | -1.099 | 0.218 | 0.419 | 0.201 | 0.186 | 9.610 |
| | 12-08-78 | 43733 | -1.119 | 0.238 | 0.444 | 0.072 | 0.181 | 9.658 |
| | 14-08-78 | 43735 | -1.093 | 0.215 | 0.413 | 0.149 | 0.196 | 9.596 |
| | 17-08-78 | 43738 | -1.047 | 0.198 | 0.402 | 0.283 | 0.171 | 9.482 |
| | 19-08-78 | 43740 | -1.091 | 0.195 | 0.400 | -- | 0.176 | 9.592 |
| | 22-08-78 | 43743 | -1.108 | 0.211 | 0.431 | 0.503 | 0.189 | 9.633 |
| | 24-08-78 | 43745 | -0.986 | 0.147 | 0.311 | -- | 0.124 | 9.335 |
| | 10-09-80 | 44493 | -1.034 | 0.217 | 0.406 | 0.136 | 0.184 | 9.448 |
| | 01-08-85 | 46279 | -1.027 | 0.222 | 0.414 | 0.134 | 0.198 | 9.430 |
| | 02-08-85 | 46280 | -1.017 | 0.221 | 0.412 | 0.136 | 0.192 | 9.405 |
| R CrA | 06-08-78 | 43727 | -2.433 | 0.328 | 0.539 | -- | 0.243 | 12.935 |
| | 10-08-78 | 43731 | -2.116 | 0.326 | 0.354 | -- | 0.248 | 12.142 |
| | 12-08-78 | 43733 | -2.112 | 0.305 | 0.335 | -- | 0.330 | 12.134 |
| | 14-08-78 | 43735 | -2.099 | 0.298 | 0.364 | 0.122: | 0.187 | 12.102 |
| | 22-08-78 | 43743 | -2.296 | 0.279 | 0.171 | -0.326: | 0.227 | 12.597 |
| | 10-09-80 | 44493 | -2.742 | 0.242: | 0.315: | 0.187: | 0.195: | 13.715 |
| | 01-08-85 | 46279 | -2.416 | 0.330 | 0.322 | 0.112: | 0.251 | 12.892 |
| | 02-08-85 | 46280 | -2.468 | 0.359 | 0.343 | 0.450: | 0.253 | 13.019 |
| T CrA | 06-08-78 | 43727 | -2.729 | 0.356: | 0.780: | 0.023: | 0.226: | 13.672 |
| | 10-08-78 | 43731 | -2.570 | 0.378 | 0.402 | -- | 0.238 | 13.273 |
| | 12-08-78 | 43733 | -2.642 | 0.368 | 0.949 | -- | -- | 13.453 |
| | 14-08-78 | 43735 | -2.542 | 0.435 | 0.534 | -0.473: | 0.426 | 13.197 |
| | 10-09-80 | 44493 | -2.901: | 0.415: | 0.426: | 0.309: | 0.257: | 14.096: |
| | 01-08-85 | 46279 | -2.847 | 0.487 | 0.539 | -0.512: | 0.641 | 13.954 |

| | | | | | | | | |
|-----------|----------|-------|--------|--------|-------|--------|-------|--------|
| | 02-08-85 | 46280 | -2.864 | 0.554 | 0.505 | 0.747: | 0.278 | 13.990 |
| HD 179218 | 15-06-90 | 48058 | -0.203 | 0.039 | 0.471 | 0.127 | 0.174 | 7.388 |
| WW Vul | 10-08-78 | 43731 | -1.726 | 0.213 | 0.657 | -- | 0.246 | 11.178 |
| | 11-08-78 | 43732 | -1.661 | 0.201 | 0.600 | -- | 0.260 | 11.017 |
| | 12-08-78 | 43733 | -1.656 | 0.199 | 0.608 | 0.135 | 0.249 | 11.005 |
| | 14-08-78 | 43735 | -1.667 | 0.205 | 0.575 | 0.193 | 0.255 | 11.032 |
| | 15-08-78 | 43736 | -1.610 | 0.198 | 0.611 | -- | 0.272 | 10.890 |
| | 16-08-78 | 43737 | -1.637 | 0.221 | 0.538 | 0.138 | 0.189 | 10.955 |
| | 17-08-78 | 43738 | -1.650 | 0.216 | 0.541 | -- | 0.347 | 10.988 |
| | 19-08-78 | 43740 | -1.754 | 0.219 | 0.579 | -- | 0.191 | 11.248 |
| | 22-08-78 | 43743 | -1.890 | 0.247 | 0.900 | -- | 0.304 | 11.585 |
| | 24-08-78 | 43745 | -1.928 | 0.297 | 0.669 | -0.190 | 0.332 | 11.675 |
| HD 190073 | 15-06-90 | 48058 | -0.390 | 0.038 | 0.410 | 0.079 | 0.141 | 7.855 |
| HD 195325 | 24-06-90 | 48067 | 0.364 | -0.001 | 0.366 | 0.140 | 0.095 | 5.974 |
| | 03-07-90 | 48076 | 0.341 | -0.001 | 0.365 | 0.143 | 0.097 | 6.032 |

Table 3. Photometry of programme stars in the Johnson/Cousins UBVRI system

| Star | Date | JD-2400000 | V | B-V | U-B | V-R | V-I | Remarks |
|------------|----------|------------|--------|-------|--------|-------|-------|---------|
| HD 283817 | 07-11-91 | 48568.542 | 10.380 | 1.105 | -- | 0.815 | 1.710 | |
| | 28-12-93 | 49350.647 | 10.10 | 0.82 | 0.02 | 0.65 | 1.53 | |
| | 29-12-93 | 49351.657 | 10.80 | 1.29 | 0.65 | 0.93 | 1.86 | |
| AB Aur | 28-12-93 | 49350.639 | 7.03 | 0.17 | -0.01 | 0.06 | 0.27 | |
| | 29-12-93 | 49351.646 | 7.02 | 0.14 | 0.05 | 0.09 | 0.22 | |
| HD 31648 | 14-09-80 | 44497 | 7.721 | -- | -- | 0.107 | 0.258 | |
| | 29-10-91 | 48559.643 | 7.667 | 0.173 | -- | 0.096 | 0.237 | |
| | 29-12-93 | 49351.649 | 7.70 | 0.20 | 0.17 | 0.10 | 0.20 | |
| UX Ori | 09-12-79 | 44217 | 11.154 | -- | -- | 0.351 | 0.855 | |
| | 10-12-79 | 44218 | 11.089 | -- | -- | 0.364 | 0.847 | |
| | 11-09-80 | 44494 | 11.404 | -- | -- | 0.356 | 0.813 | |
| | 13-09-80 | 44496 | 11.031 | -- | -- | 0.376 | 0.795 | |
| | 15-12-80 | 44589.643 | 10.948 | -- | -- | 0.363 | 0.711 | |
| | 16-12-80 | 44590.625 | 10.932 | -- | -- | 0.325 | 0.685 | |
| | 17-12-80 | 44591.598 | 10.912 | -- | -- | 0.320 | 0.691 | |
| | 08-02-88 | 47199.550 | 9.838 | 0.323 | 0.252 | 0.156 | 0.317 | |
| | 08-02-88 | 47199.557 | 9.866 | 0.288 | 0.242 | 0.190 | 0.371 | |
| | 08-02-88 | 47199.563 | 9.871 | 0.279 | 0.241 | 0.167 | 0.403 | |
| | 01-12-92 | 48957.609 | 10.333 | 0.386 | 0.192 | 0.206 | 0.457 | |
| | 02-12-92 | 48958.585 | 10.344 | 0.368 | 0.229 | 0.218 | 0.460 | |
| | 04-12-92 | 48960.579 | 10.319 | 0.341 | 0.295 | 0.227 | 0.503 | |
| V1012 Ori | 01-12-92 | 48957.616 | 13.116 | 0.646 | 0.228 | 0.401 | 0.854 | |
| | 02-12-92 | 48958.595 | 12.967 | 0.619 | 0.158 | 0.360 | 0.771 | |
| | 04-12-92 | 48960.585 | 12.701 | 0.558 | 0.244 | 0.364 | 0.780 | |
| | 05-02-97 | 50485.328 | 12.072 | 0.475 | 0.153 | 0.353 | 0.955 | |
| | 05-02-97 | 50485.333 | 12.090 | 0.459 | 0.138 | 0.400 | 1.114 | |
| | 07-02-97 | 50487.360 | 12.134 | 0.498 | 0.259 | 0.328 | 0.883 | |
| S22/LMC | 23-03-92 | 48704.560 | 11.770 | 0.329 | -0.509 | 0.901 | 0.660 | |
| | 24-03-92 | 48705.539 | 12.646 | 0.701 | -0.044 | 0.216 | -- | |
| | 25-03-92 | 48706.534 | 11.781 | 0.288 | -0.509 | 0.881 | 0.682 | |
| HD 34282 | 25-12-93 | 49347.731 | 9.89 | 0.16 | 0.10 | 0.08 | 0.18 | |
| | 26-12-93 | 49348.625 | 9.81 | 0.16 | 0.14 | 0.08 | 0.19 | |
| | 27-12-93 | 49349.622 | 9.94 | 0.13 | 0.44 | -0.01 | 0.15 | |
| V346 Ori | 17-12-80 | 44591.656 | 10.711 | -- | -- | 0.236 | 0.485 | |
| | 21-12-80 | 44595.623 | 10.533 | -- | -- | 0.201 | 0.421 | |
| | 29-10-84 | 46003 | 10.091 | 0.226 | -0.016 | 0.172 | 0.276 | |
| | 01-12-92 | 48957.622 | 10.193 | 0.335 | -0.037 | 0.132 | 0.304 | |
| | 02-12-92 | 48958.752 | 10.209 | 0.288 | 0.132 | 0.149 | 0.315 | |
| | 04-12-92 | 48960.740 | 10.202 | 0.287 | 0.123 | 0.154 | 0.327 | |
| CO Ori | 01-12-92 | 48957.774 | 11.248 | 1.213 | 0.397 | 0.684 | 1.397 | |
| | 02-12-92 | 48958.740 | 11.698 | 1.135 | 0.413 | 0.722 | 1.435 | |
| | 04-12-92 | 48960.728 | 11.625 | 1.139 | 0.489 | 0.743 | 1.486 | |
| HD 35929 | 25-12-93 | 49347.707 | 8.31 | 0.37 | 0.12 | 0.37 | 1.04 | |
| | 26-12-93 | 49348.621 | 8.11 | 0.42 | 0.12 | 0.25 | 0.52 | |
| | 27-12-93 | 49349.619 | 8.12 | 0.41 | 0.18 | 0.25 | 0.51 | |
| | 05-02-97 | 50485.320 | 8.124 | 0.422 | 0.154 | 0.275 | 0.540 | |
| | 08-02-97 | 50488.309 | 8.134 | 0.423 | 0.157 | 0.268 | 0.525 | |
| BD-06 1193 | 02-12-92 | 48958.634 | 10.536 | 0.621 | 0.068 | 0.357 | 0.712 | |
| | 04-12-92 | 48960.591 | 10.468 | 0.595 | 0.096 | 0.366 | 0.715 | |

| | | | | | | | | |
|------------|----------|-----------|--------|--------|--------|-------|-------|----------------|
| | 04-12-92 | 48960.653 | 10.474 | 0.579 | 0.057 | 0.369 | 0.718 | |
| | 26-12-93 | 49348.770 | 10.43 | 0.58 | 0.03 | 0.35 | 0.73 | |
| | 27-12-93 | 49349.629 | 10.55 | 0.61 | -- | 0.27 | 0.73 | |
| | 28-12-93 | 49350.723 | 10.43 | 0.52 | -- | 0.40 | 0.72 | |
| | 05-02-97 | 50485.321 | 10.436 | 0.602 | 0.092 | 0.364 | 0.750 | |
| | 07-02-97 | 50487.368 | 10.426 | 0.609 | 0.088 | 0.437 | 1.142 | |
| BD+11 820 | 18-01-94 | 49371.608 | 10.842 | 0.900 | 0.466 | 0.504 | 1.001 | |
| HD 36112 | 26-12-93 | 49348.674 | 8.27 | 0.29 | 0.08 | 0.17 | 0.38 | |
| | 29-12-93 | 49351.653 | 8.26 | 0.30 | 0.17 | 0.16 | 0.36 | |
| HK Ori | 15-12-80 | 44589.681 | 11.612 | -- | -- | 0.417 | 0.880 | |
| | 17-12-80 | 44591.674 | 11.522 | -- | -- | 0.402 | 0.845 | |
| | 01-12-92 | 48957.780 | 11.441 | 0.464 | -0.124 | 0.325 | 0.714 | |
| | 02-12-92 | 48958.746 | 11.439 | 0.396 | -0.045 | 0.338 | 0.704 | |
| | 04-12-92 | 48960.734 | 11.405 | 0.378 | -0.070 | 0.356 | 0.747 | |
| HD 244604 | 25-12-93 | 49347.739 | 9.38 | 0.19 | 0.11 | 0.11 | 0.26 | |
| | 26-12-93 | 49348.684 | 9.38 | 0.19 | 0.13 | 0.11 | 0.26 | |
| | 27-12-93 | 49349.746 | 8.99 | 0.25 | 0.11 | 0.29 | 0.5 | |
| RY Ori | 01-12-92 | 48957.629 | 12.058 | 0.913 | 0.248 | 0.536 | 1.078 | |
| | 02-12-92 | 48958.610 | 11.593 | 0.864 | 0.241 | 0.516 | 1.015 | |
| | 04-12-92 | 48960.602 | 11.892 | 0.890 | 0.396 | 0.550 | 1.108 | |
| | 07-02-97 | 50487.360 | 11.649 | 0.903 | 0.598 | 0.585 | 1.352 | |
| EZ Ori | 18-01-94 | 49371.670 | 12.869 | 1.277: | 0.684: | 0.649 | 1.493 | |
| IX Ori | 26-12-93 | 49348.771 | 12.33 | 0.43 | -1.26 | 0.63 | 0.97 | |
| | 05-02-97 | 50485.340 | 13.217 | 0.495 | -0.938 | 1.056 | 1.811 | |
| | 08-02-97 | 50488.327 | 12.957 | 0.450 | -1.327 | 0.772 | 0.973 | |
| | 08-02-97 | 50488.351 | 13.264 | 0.627 | -1.320 | 1.001 | 1.289 | |
| V372 Ori | 16-12-80 | 44590.673 | 7.980 | -- | -- | 0.142 | 0.320 | |
| | 21-12-80 | 44595.665 | 7.988 | -- | -- | 0.137 | 0.328 | |
| | 01-11-84 | 46006 | 7.969 | 0.182 | -0.044 | 0.179 | 0.349 | |
| YZ Ori | 26-12-93 | 49348.777 | 14.85 | -- | -- | -- | -- | |
| | 27-12-93 | 49349.649 | 13.74 | 0.59 | -0.11 | 0.78 | 1.3 | |
| | 06-02-97 | 50486.329 | 14.475 | 0.563 | -0.527 | 0.902 | 2.155 | |
| | 10-02-97 | 50490.332 | 13.966 | 0.550 | -0.536 | 0.494 | 1.210 | |
| HD 36939 | 17-12-80 | 44591.706 | 8.97 | -- | -- | 0.00 | 0.00 | |
| | 21-12-80 | 44595.682 | 8.98 | -- | -- | 0.00 | 0.01 | |
| | 10-02-97 | 50490.320 | 8.985 | -0.034 | -0.268 | 0.007 | 0.022 | |
| BD-05 1306 | 17-12-80 | 44591.705 | 10.14 | -- | -- | 0.40 | 0.84 | |
| | 21-12-80 | 44595.685 | 10.14 | -- | -- | 0.40 | 0.85 | |
| KS Ori | 17-12-80 | 44591.726 | 10.05 | -- | -- | 0.13 | 0.24 | |
| | 21-12-80 | 44595.689 | 10.06 | -- | -- | 0.13 | 0.23 | |
| HD 245185 | 04-11-84 | 46009 | 9.980 | 0.290 | -0.122 | 0.156 | 0.262 | |
| | 02-12-92 | 48958.727 | 9.909 | 0.087 | 0.019 | 0.042 | 0.092 | |
| | 02-12-92 | 48958.758 | 9.913 | 0.083 | 0.020 | 0.046 | 0.088 | |
| | 04-12-92 | 48960.664 | 9.947 | 0.092 | 0.031 | 0.062 | 0.141 | |
| | 04-12-92 | 48960.716 | 9.946 | 0.091 | 0.025 | 0.061 | 0.133 | |
| | 04-12-92 | 48960.745 | 9.937 | 0.096 | 0.024 | 0.054 | 0.137 | |
| MR Ori | 01-12-92 | 48957.636 | 10.850 | 0.166 | 0.636 | 0.417 | 0.837 | In bright neb. |
| | 02-12-92 | 48958.616 | 9.542 | 0.350 | -0.440 | 0.298 | 0.606 | |
| | 04-12-92 | 48960.608 | 9.811 | 0.200 | -0.226 | 0.285 | 0.780 | |

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|------------|----------|-----------|--------|-------|--------|-------|--------|------------------|
| LZ Ori | 17-12-80 | 44591.726 | 9.73 | -- | -- | 0.19 | 0.44 | |
| MX Ori | 18-01-94 | 49371.665 | 9.931 | 0.742 | 0.206 | 0.415 | 0.839 | |
| V361 Ori | 21-12-80 | 44595.662 | 8.147 | -- | -- | 0.097 | 0.171 | |
| T Ori | 09-12-79 | 44217 | 10.567 | 0.531 | 0.743 | 0.341 | 0.839 | |
| | 10-12-79 | 44218 | 10.713 | 0.537 | 0.478 | 0.355 | 0.834 | |
| | 11-09-80 | 44494 | 10.251 | -- | -- | 0.294 | 0.629 | |
| | 13-09-80 | 44496 | 10.281 | -- | -- | 0.337 | 0.732 | |
| | 15-12-80 | 44589.712 | 10.201 | -- | -- | 0.350 | 0.654 | |
| | 16-12-80 | 44590.681 | 10.178 | -- | -- | 0.313 | 0.665 | |
| | 01-12-92 | 48957.641 | 10.689 | 0.571 | 0.453 | 0.353 | 0.772 | Neb. background |
| | 02-12-92 | 48958.604 | 10.608 | 0.554 | 0.464 | 0.339 | 0.735 | |
| | 04-12-92 | 48960.597 | 10.792 | 0.569 | 0.686 | 0.376 | 0.837 | |
| | 18-01-94 | 49371.677 | 10.425 | 0.553 | 0.400 | 0.327 | 0.795 | |
| | | | | | | | | |
| CQ Tau | 11-11-86 | 46745.553 | 10.22 | 0.78 | -- | 0.50 | 0.28 | |
| | 13-11-86 | 46747.533 | 10.98 | 0.80 | -- | 0.51 | 0.33 | |
| | 13-11-86 | 46747.810 | 11.06 | 0.66 | 0.35 | 0.19 | 0.32 | |
| | 29-12-93 | 49351.688 | 10.95 | 0.70 | 0.40 | 0.45 | 0.96 | |
| V380 Ori | 09-12-79 | 44217 | 10.302 | 0.474 | -0.324 | 0.416 | 1.055 | |
| | 11-09-80 | 44494 | 10.547 | -- | -- | 0.497 | 1.145 | |
| | 14-09-80 | 44497 | 10.627 | -- | -- | 0.543 | 1.212 | |
| | 16-12-80 | 44590.724 | 10.483 | -- | -- | 0.467 | 1.065 | |
| | 21-12-80 | 44595.571 | 10.525 | -- | -- | 0.503 | 1.086 | |
| | 22-10-89 | 47822 | 10.208 | 0.582 | -- | 0.467 | 1.124 | |
| | 24-03-92 | 48705.551 | 10.532 | 0.509 | -0.236 | 0.424 | 1.026 | |
| | 25-03-92 | 48706.558 | 10.582 | 0.448 | -0.277 | 0.421 | 1.001 | |
| | 01-12-92 | 48957.648 | 10.689 | 0.571 | -0.247 | 0.470 | 1.073 | Neb. background? |
| | 02-12-92 | 48958.622 | 10.731 | 0.562 | -0.202 | 0.481 | 1.081 | |
| | 04-12-92 | 48960.612 | 10.706 | 0.551 | -0.207 | 0.499 | 1.128 | |
| | 18-01-94 | 49371.689 | 10.584 | 0.662 | -0.242 | 0.491 | 1.173 | |
| | | | | | | | | |
| | | | | | | | | |
| BN Ori | 11-11-86 | 46745.427 | 9.67 | 0.44 | -- | 0.31 | 0.27 | |
| | 12-11-86 | 46746.494 | 9.64 | 0.46 | -- | 0.27 | 0.29 | |
| | 18-01-94 | 49371.616 | 9.623 | 0.521 | 0.088 | 0.300 | 0.577 | |
| BD-04 1191 | 18-01-94 | 49371.670 | 10.738 | 0.745 | 0.092 | 0.440 | 0.844 | |
| V586 Ori | 20-12-80 | 44594.797 | 9.700 | -- | -- | 0.100 | 0.240 | |
| | 21-12-80 | 44595.580 | 9.759 | -- | -- | 0.108 | 0.236 | |
| | 20-03-92 | 48701.532 | 9.663 | 0.118 | 0.053 | 0.106 | 0.193 | |
| | 23-03-92 | 48704.530 | 9.640 | 0.140 | 0.089 | 0.085 | 0.172 | |
| | 24-03-92 | 48705.567 | 9.673 | 0.134 | 0.037 | 0.081 | 0.179 | |
| | 01-12-92 | 48957.653 | 9.651 | 0.136 | 0.041 | 0.072 | 0.174 | |
| | 02-12-92 | 48958.640 | 10.044 | 0.249 | 0.166 | 0.146 | 0.304 | |
| | 04-12-92 | 48960.623 | 9.663 | 0.142 | 0.071 | 0.092 | 0.207 | |
| | | | | | | | | |
| BF Ori | 09-12-79 | 44217 | 9.815 | 0.226 | 0.292 | 0.137 | 0.346 | |
| | 10-12-79 | 44218 | 9.825 | 0.215 | 0.498 | 0.143 | 0.342 | |
| | 11-09-80 | 44494 | 10.315 | -- | -- | 0.204 | -0.244 | |
| | 14-09-80 | 44497 | 10.164 | -- | -- | 0.142 | -0.267 | |
| | 16-12-80 | 44590.725 | 11.374 | -- | -- | 0.307 | 0.697 | |
| | 21-12-80 | 44595.576 | 10.729 | -- | -- | 0.257 | 0.584 | |
| | 02-11-84 | 46007 | 10.496 | 0.351 | 0.170 | 0.280 | 0.451 | |
| | 18-03-92 | 48699.588 | 10.437 | 0.352 | 0.393 | 0.156 | 0.418 | |
| | 23-03-92 | 48704.536 | 10.822 | 0.400 | 0.366 | 0.225 | 0.491 | |
| | 24-03-92 | 48705.557 | 10.689 | 0.354 | 0.339 | 0.219 | 0.468 | |
| | 25-03-92 | 48706.561 | 10.453 | 0.347 | 0.343 | 0.191 | 0.479 | |
| | 01-12-92 | 48957.659 | 11.148 | 0.441 | 0.338 | 0.280 | 0.602 | |
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|------------|----------|-----------|--------|-------|-------|-------|-------|---------------|
| | 02-12-92 | 48958.627 | 11.139 | 0.467 | 0.363 | 0.273 | 0.597 | |
| | 04-12-92 | 48960.618 | 11.673 | 0.405 | 0.321 | 0.291 | 0.662 | |
| HD 37357 | 02-12-92 | 48958.652 | 8.844 | 0.118 | 0.033 | 0.053 | 0.117 | |
| | 02-12-92 | 48958.764 | 8.837 | 0.106 | 0.070 | 0.046 | 0.103 | |
| | 04-12-92 | 48960.634 | 8.839 | 0.102 | 0.041 | 0.062 | 0.141 | |
| | 04-12-92 | 48960.753 | 8.836 | 0.110 | 0.045 | 0.045 | 0.118 | |
| | 04-12-92 | 48960.805 | 8.839 | 0.112 | 0.053 | 0.050 | 0.121 | |
| | 06-02-97 | 50486.350 | 8.831 | 0.112 | 0.046 | 0.042 | 0.100 | |
| | 08-02-97 | 50488.319 | 8.838 | 0.105 | 0.051 | 0.055 | 0.129 | |
| N3Sk81 | 02-12-92 | 48958.663 | 13.807 | 1.416 | 0.967 | 0.933 | 1.950 | |
| | 04-12-92 | 48960.639 | 13.807 | 1.435 | 0.928 | 0.947 | 1.984 | |
| | 04-12-92 | 48960.658 | 13.812 | 1.369 | 1.043 | 0.955 | 1.989 | |
| | 26-12-93 | 49348.632 | 13.76 | 1.44 | -- | 1.07 | 2.18 | |
| | 06-02-97 | 50486.361 | 13.752 | 1.358 | 1.699 | 1.293 | 2.957 | |
| | 10-02-97 | 50490.342 | 13.836 | 1.850 | -- | 1.010 | 2.199 | |
| HD 37411 | 20-03-92 | 48701.553 | 9.846 | 0.161 | 0.128 | 0.085 | 0.234 | |
| | 20-03-92 | 48701.573 | 9.850 | 0.154 | 0.111 | 0.100 | 0.244 | |
| | 23-03-92 | 48704.541 | 9.827 | 0.158 | 0.121 | 0.110 | 0.247 | |
| | 24-03-92 | 48705.563 | 9.860 | 0.147 | 0.098 | 0.094 | 0.234 | |
| | 25-03-92 | 48706.566 | 9.820 | 0.129 | 0.124 | 0.098 | 0.239 | |
| | 02-12-92 | 48958.669 | 9.783 | 0.146 | 0.113 | 0.083 | 0.201 | |
| | 04-12-92 | 48960.645 | 9.775 | 0.139 | 0.090 | 0.090 | 0.221 | |
| | 04-12-92 | 48960.758 | 9.775 | 0.145 | 0.108 | 0.086 | 0.210 | |
| | 06-02-97 | 50486.370 | 9.755 | 0.151 | 0.103 | 0.101 | 0.368 | |
| | 08-02-97 | 50488.319 | 9.778 | 0.145 | 0.115 | 0.100 | 0.227 | |
| CD-59 1105 | 18-01-94 | 49371.729 | 9.739 | 0.538 | 0.000 | 0.321 | 0.689 | |
| N3Sk83 | 25-12-93 | 49347.722 | 14.4: | -- | -- | -- | -- | |
| V599 Ori | 06-02-97 | 50486.378 | 13.800 | 2.090 | 1.355 | 1.493 | 3.097 | |
| | 08-02-97 | 50488.361 | 13.756 | 1.646 | 1.661 | 1.068 | 2.213 | |
| HD 37490 | 25-12-93 | 49347.752 | 4.48 | -0.11 | -0.59 | -0.08 | -0.13 | |
| | 26-12-93 | 49348.687 | 4.53 | -0.14 | -0.64 | -0.03 | -0.09 | |
| | 27-12-93 | 49349.740 | 4.56 | -0.08 | -0.77 | 0.00 | -0.03 | |
| V350 Ori | 23-01-87 | 46819 | 10.919 | 0.378 | 0.335 | 0.222 | 0.513 | |
| | 24-01-87 | 46820 | 10.815 | 0.325 | 0.238 | 0.203 | 0.484 | |
| | 25-01-87 | 46821 | 11.016 | 0.391 | 0.264 | 0.237 | 0.546 | |
| | 26-01-87 | 46822 | 11.027 | 0.390 | 0.366 | 0.220 | 0.541 | |
| | 27-01-87 | 46823 | 11.310 | 0.495 | 0.391 | 0.262 | 0.649 | |
| | 28-01-87 | 46824 | 10.956 | 0.358 | 0.316 | 0.224 | 0.519 | |
| | 29-01-87 | 46825 | 10.930 | 0.396 | 0.277 | 0.221 | 0.527 | |
| | 30-01-87 | 46826 | 10.879 | 0.354 | 0.344 | 0.205 | 0.494 | |
| | 31-01-87 | 46827 | 11.086 | 0.393 | 0.388 | 0.174 | 0.488 | |
| | 01-02-87 | 46828 | 11.106 | 0.435 | 0.333 | 0.252 | 0.576 | |
| | 10-03-91 | 48326 | 11.470 | 0.482 | 0.391 | 0.301 | 0.677 | |
| | 11-03-91 | 48327 | 11.363 | 0.454 | 0.380 | 0.303 | 0.631 | |
| | 01-12-92 | 48957.666 | 13.011 | 0.677 | 0.434 | 0.479 | 1.085 | |
| | 02-12-92 | 48958.646 | 13.323 | 0.601 | 0.267 | 0.440 | 1.071 | |
| | 04-12-92 | 48960.629 | 12.808 | 0.622 | 0.379 | 0.492 | 1.102 | |
| | 18-01-94 | 49371.683 | 11.524 | 0.479 | 0.300 | 0.352 | 0.751 | |
| KMS 82 | 26-12-93 | 49348.783 | 11.55 | 1.61 | 1.3: | -- | -- | Correct Star? |
| | 27-12-93 | 49349.656 | 11.83 | 1.35 | -- | -- | -- | Correct Star? |
| | 06-02-97 | 50486.390 | 14.559 | 1.927 | 0.964 | 1.398 | 2.801 | |
| | 10-02-97 | 50490.349 | 14.573 | 1.974 | 2.541 | 1.374 | 2.715 | |
| KMS 108 | 07-02-97 | 50487.311 | 11.192 | 0.561 | 0.443 | 0.375 | 1.108 | |

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|-----------|----------|-----------|--------|-------|--------|-------|-------|---------------|
| | 10-02-97 | 50490.360 | 11.210 | 0.547 | 0.397 | 0.305 | 0.690 | Correct Star? |
| HD 37806 | 17-12-80 | 44591.765 | 7.863 | -- | -- | 0.065 | 0.155 | |
| | 21-12-80 | 44595.701 | 7.901 | -- | -- | 0.068 | 0.156 | |
| | 20-03-92 | 48701.527 | 7.945 | 0.041 | -0.212 | 0.045 | 0.142 | |
| | 23-03-92 | 48704.520 | 7.955 | 0.053 | -0.173 | 0.052 | 0.123 | |
| | 24-03-92 | 48705.525 | 7.950 | 0.041 | -0.198 | 0.059 | 0.115 | |
| | 25-03-92 | 48706.521 | 7.961 | 0.019 | -0.163 | 0.060 | 0.140 | |
| | 25-03-92 | 48706.540 | 7.945 | 0.012 | -0.169 | 0.039 | 0.129 | |
| KMS 118 | 07-02-97 | 50487.333 | 14.915 | 1.213 | 1.030 | 1.189 | 2.734 | |
| | 07-02-97 | 50487.343 | 14.803 | 1.244 | 0.990 | 1.295 | 2.942 | |
| | 10-02-97 | 50490.370 | 14.928 | 0.978 | 0.658 | 0.661 | 0.795 | |
| V351 Ori | 06-02-97 | 50486.311 | 8.936 | 0.369 | 0.256 | 0.224 | 0.492 | |
| | 07-02-97 | 50487.309 | 8.889 | 0.361 | 0.240 | 0.207 | 0.481 | |
| FU Ori | 04-11-84 | 46009 | 9.086 | 1.187 | 0.557 | 0.814 | 1.506 | |
| HD 288313 | 02-12-92 | 48958.733 | 9.946 | 1.093 | 0.667 | 0.632 | 1.252 | |
| | 02-12-92 | 48958.769 | 9.952 | 1.094 | 0.668 | 0.631 | 1.247 | |
| | 04-12-92 | 48960.721 | 9.919 | 1.076 | 0.647 | 0.638 | 1.258 | |
| | 04-12-92 | 48960.771 | 9.917 | 1.081 | 0.658 | 0.636 | 1.255 | |
| | 25-12-93 | 49347.765 | 9.45 | 0.09 | -0.34 | 0.11 | 0.30 | |
| | 26-12-93 | 49348.692 | 9.50 | 0.03 | -0.33 | 0.10 | 0.30 | |
| | 29-12-93 | 49351.697 | 9.50 | 0.10 | -0.35 | 0.10 | 0.28 | |
| 17 Lep | 23-03-92 | 48704.586 | 4.942 | 0.223 | 0.076 | 0.230 | 0.815 | |
| | 23-03-92 | 48704.602 | 4.914 | 0.236 | 0.074 | 0.218 | 0.788 | |
| | 24-03-92 | 48705.589 | 4.996 | 0.212 | 0.053 | 0.222 | 0.826 | |
| LkHa 208 | 25-12-93 | 49347.770 | 11.34 | 0.43 | 0.15 | 0.26 | 0.61 | |
| | 26-12-93 | 49348.700 | 11.04 | 0.46 | 0.20 | 0.37 | 0.64 | |
| | 29-12-93 | 49351.703 | 11.50 | 0.30 | 0.28 | 0.06 | 0.51 | |
| LkHa 339 | 26-12-93 | 49348.654 | 13.44 | 1.01: | -- | 0.83 | 1.64 | |
| | 26-12-93 | 49348.659 | 13.64 | 0.86 | 0.38 | 0.68 | 1.21 | |
| | 06-02-97 | 50486.441 | 13.469 | 0.770 | 0.348 | 0.666 | 1.537 | |
| | 08-02-97 | 50488.420 | 13.520 | 0.822 | 0.627 | 0.506 | 1.236 | |
| | 10-02-97 | 50490.409 | 13.454 | 0.781 | 0.435 | 0.528 | 1.112 | |
| MWC 137 | 25-12-93 | 49347.774 | 11.98 | 1.27 | -0.42 | 1.21 | 1.99 | |
| | 26-12-93 | 49348.706 | 11.67 | 0.99 | -0.03 | 1.09 | 1.84 | |
| HD 45677 | 15-12-80 | 44589.734 | 8.660 | -- | -- | 0.279 | 0.403 | |
| | 16-12-80 | 44590.794 | 8.713 | -- | -- | 0.279 | 0.392 | |
| | 18-03-92 | 48699.599 | 7.958 | 0.073 | -0.618 | 0.177 | 0.348 | |
| | 20-03-92 | 48701.616 | 7.940 | 0.081 | -0.638 | 0.186 | 0.329 | |
| | 24-03-92 | 48705.607 | 7.941 | 0.069 | -0.595 | 0.195 | 0.341 | |
| | 25-03-92 | 48706.574 | 7.935 | 0.063 | -0.620 | 0.177 | 0.318 | |
| | 01-12-92 | 48957.810 | 8.049 | 0.074 | -0.657 | 0.207 | 0.331 | |
| | 02-12-92 | 48958.774 | 8.105 | 0.055 | -0.589 | 0.199 | 0.306 | |
| | 04-12-92 | 48960.775 | 8.073 | 0.067 | -0.655 | 0.209 | 0.316 | |
| | 17-01-94 | 49370.753 | 8.145 | 0.045 | -0.547 | 0.241 | 0.403 | |
| | 18-01-94 | 49371.653 | 8.117 | 0.135 | -0.617 | 0.211 | 0.330 | |
| | 18-01-94 | 49371.725 | 8.134 | 0.117 | -0.599 | 0.209 | 0.341 | |
| | 18-01-94 | 49371.780 | 8.146 | 0.165 | -0.622 | 0.221 | -- | |
| VY Mon | 01-12-92 | 48957.789 | 13.088 | 1.637 | 0.640 | 1.134 | 2.369 | |
| | 02-12-92 | 48958.784 | 13.042 | 1.624 | 0.807 | 1.122 | 2.348 | |
| | 04-12-92 | 48960.781 | 12.968 | 1.593 | 0.723 | 1.149 | 2.366 | |
| LkHa 215 | 19-12-80 | 44593.863 | 10.907 | -- | -- | 0.520 | 0.970 | |

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| | 10-02-97 | 50490.441 | 10.269 | 1.177 | 0.282 | 0.864 | 1.761 | |
| LkHa 220 | 26-12-93 | 49348.841 | 11.55 | 0.29 | -0.12 | 0.23 | 0.39 | |
| | 27-12-93 | 49349.772 | 11.52 | 0.24 | -0.20 | 0.25 | 0.52 | |
| | 28-12-93 | 49350.669 | 11.92 | 0.39 | 0.44 | 1.49 | 3.34 | |
| | | | | | | | | |
| HD 53367 | 16-12-80 | 44590.822 | 6.924 | -- | -- | 0.357 | 0.767 | |
| | 21-12-80 | 44595.779 | 6.925 | -- | -- | 0.349 | 0.760 | |
| | 24-03-92 | 48705.575 | 7.076 | 0.420 | -0.557 | 0.262 | 0.660 | |
| | 25-03-92 | 48706.585 | 6.954 | 0.421 | -0.568 | 0.283 | 0.654 | |
| NX Pup | 20-02-83 | 45386.607 | 9.839 | 0.470 | 0.163 | 0.363 | 0.797 | |
| | 23-02-83 | 45389.581 | 9.976 | 0.473 | -0.240 | 0.375 | 0.839 | |
| | 24-02-83 | 45390.567 | 9.983 | 0.455 | 0.136 | 0.339 | 0.791 | |
| | 01-12-92 | 48957.820 | 9.726 | 0.380 | 0.051 | 0.279 | 0.596 | |
| | 02-12-92 | 48958.812 | 9.637 | 0.367 | 0.020 | 0.279 | 0.601 | |
| | 04-12-92 | 48960.810 | 9.625 | 0.331 | -0.033 | 0.253 | 0.563 | |
| | 17-01-94 | 49370.769 | 10.638 | 0.499 | 0.052 | 0.423 | 0.965 | |
| | | | | | | | | |
| MWC 560 | 20-03-92 | 48701.522 | 10.206 | 0.386 | -0.260 | 0.426 | 1.601 | |
| | 20-03-92 | 48701.568 | 10.151 | 0.366 | -0.305 | 0.421 | 1.573 | |
| | 20-03-92 | 48701.610 | 10.331 | 0.406 | -0.291 | 0.462 | 1.700 | |
| | 20-03-92 | 48701.631 | 10.250 | 0.365 | -0.356 | 0.453 | 1.647 | |
| | 23-03-92 | 48704.592 | 10.263 | 0.407 | -0.273 | 0.446 | 1.659 | |
| | 24-03-92 | 48705.584 | 10.085 | 0.335 | -0.449 | 0.414 | 1.518 | |
| | 25-03-92 | 48706.552 | 9.988 | 0.332 | -0.334 | 0.359 | 1.494 | |
| | 25-03-92 | 48706.569 | 9.960 | 0.317 | -0.336 | 0.365 | 1.465 | |
| HD 59319 | 27-12-93 | 49349.783 | 8.29 | -0.07 | -0.37 | -0.03 | -0.05 | |
| | 28-12-93 | 49350.657 | 8.30 | -0.11 | -0.35 | -0.04 | -0.07 | |
| | 04-02-97 | 50484.422 | 8.305 | -0.082 | -0.370 | -0.031 | -0.105 | |
| | 10-02-97 | 50490.449 | 8.306 | -0.072 | -0.363 | -0.027 | -0.056 | |
| HD 59771 | 16-01-94 | 49369.775 | 8.941 | 0.951 | 0.231 | 0.607 | 1.249 | |
| | 17-01-94 | 49370.778 | 8.889 | 0.956 | 0.258 | 0.583 | 1.215 | |
| Hen 3-40 | 04-02-97 | 50484.451 | 14.422 | 0.382 | 1.908 | -0.165 | 1.116 | Correct Star? |
| | 07-02-97 | 50487.427 | 13.730 | 0.584 | 0.030 | 0.346 | 0.809 | Correct Star? |
| | 07-02-97 | 50487.440 | 13.750 | 0.559 | 0.062 | 0.333 | 0.735 | Correct Star? |
| PW Pup | 16-01-94 | 49369.782 | 9.233 | 0.877 | 0.386 | 0.589 | 1.233 | |
| | 17-01-94 | 49370.784 | 9.236 | 0.866 | 0.405 | 0.614 | 1.226 | |
| HD 64315 | 16-01-94 | 49369.800 | 9.241 | 0.206 | -0.741 | 0.208 | 0.405 | |
| AS 202 | 18-01-94 | 49371.791 | 10.795 | 0.178 | -0.075 | 0.192 | 0.539 | |
| ESO 313-10 | 27-12-93 | 49349.820 | 14.59 | 1.49 | -- | 0.99 | 2.11 | |
| | 06-02-97 | 50486.460 | 14.242 | 1.370 | 0.446 | 0.956 | 1.815 | |
| | 10-02-97 | 50490.471 | 14.446 | 1.336 | 0.445 | 0.889 | 1.834 | |
| Hen 3-209 | 16-01-94 | 49369.812 | 13.562 | 1.292: | 0.708: | 0.934 | 1.836 | |
| Hen 2-14 | 16-01-94 | 49369.828 | 14.048 | 1.104: | 0.123: | 0.997 | 1.587 | |
| HD 76534 | 24-03-92 | 48705.629 | 8.075 | 0.111 | -0.493 | 0.109 | 0.187 | |
| | 25-03-92 | 48706.616 | 8.065 | 0.107 | -0.498 | 0.099 | 0.226 | |
| RCW 34 | 05-02-97 | 50485.389 | 11.210 | 0.742 | -0.218 | 0.537 | 1.166 | |
| | 10-02-97 | 50490.461 | 11.636 | 0.988 | -0.117 | 0.809 | 1.348 | |
| Herbst 28 | 05-02-97 | 50485.400 | 14.758 | 0.820 | 0.384 | 0.579 | 0.592 | Correct Star? |
| | 08-02-97 | 50488.532 | 11.254 | 0.728 | 0.224 | 0.476 | 0.996 | Correct Star? |

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| RCW 36 | 26-12-93 | 49348.792 | 15.20 | 0.02: | -0.54: | 0.50: | 1.57: |
| HD 309784 | 17-01-94 | 49370.789 | 10.163 | -0.017 | -0.756 | 0.137 | 0.255 |
| HD 85567 | 04-03-91 | 48319.637 | 8.486 | 0.152 | -0.529 | 0.186 | 0.393 |
| | 05-03-91 | 48320.683 | 8.560 | 0.138 | -0.589 | 0.187 | 0.425 |
| | 06-03-91 | 48321.602 | 8.563 | 0.123 | -0.446 | 0.218 | 0.430 |
| | 06-03-91 | 48321.606 | 8.557 | 0.130 | -0.469 | 0.208 | 0.463 |
| | 06-03-91 | 48321.613 | 8.561 | 0.137 | -0.483 | 0.200 | 0.468 |
| | 06-03-91 | 48321.617 | 8.553 | 0.139 | -0.468 | 0.209 | 0.484 |
| | 08-03-91 | 48323.543 | 8.534 | 0.156 | -0.529 | 0.194 | 0.485 |
| | 08-03-91 | 48323.549 | 8.531 | 0.156 | -0.569 | 0.193 | 0.412 |
| | 08-03-91 | 48323.552 | 8.537 | 0.153 | -0.534 | 0.199 | 0.431 |
| | 08-03-91 | 48323.556 | 8.530 | 0.155 | -0.563 | 0.189 | 0.463 |
| | 08-03-91 | 48323.560 | 8.540 | 0.154 | -0.568 | 0.198 | 0.437 |
| | 08-03-91 | 48323.613 | 8.564 | 0.144 | -0.536 | 0.191 | 0.462 |
| | 08-03-91 | 48323.618 | 8.564 | 0.134 | -0.498 | 0.186 | 0.438 |
| | 09-03-91 | 48324.526 | 8.540 | 0.161 | -0.502 | 0.203 | 0.392 |
| | 09-03-91 | 48324.530 | 8.531 | 0.156 | -0.521 | 0.180 | 0.401 |
| | 09-03-91 | 48324.541 | 8.540 | 0.143 | -0.511 | 0.200 | 0.428 |
| | 09-03-91 | 48324.545 | 8.542 | 0.142 | -0.515 | 0.212 | 0.379 |
| | 10-03-91 | 48325.576 | 8.544 | 0.153 | -0.557 | 0.200 | 0.421 |
| | 11-03-91 | 48326.570 | 8.512 | 0.162 | -0.568 | 0.189 | 0.429 |
| | 11-03-91 | 48326.576 | 8.521 | 0.153 | -0.569 | 0.200 | 0.449 |
| | 12-03-91 | 48327.559 | 8.533 | 0.149 | -0.561 | 0.202 | 0.433 |
| | 12-03-91 | 48327.565 | 8.523 | 0.161 | -0.570 | 0.199 | 0.423 |
| | 18-03-92 | 48699.639 | 8.543 | 0.141 | -0.517 | 0.190 | 0.404 |
| | 20-03-92 | 48701.540 | 8.548 | 0.130 | -0.533 | 0.182 | 0.418 |
| | 20-03-92 | 48701.600 | 8.552 | 0.140 | -0.532 | 0.190 | 0.415 |
| | 20-03-92 | 48701.674 | 8.575 | 0.139 | -0.535 | 0.198 | 0.445 |
| | 20-03-92 | 48701.720 | 8.586 | 0.129 | -0.535 | 0.208 | 0.427 |
| | 20-03-92 | 48701.733 | 8.580 | 0.147 | -0.567 | 0.205 | 0.438 |
| | 24-03-92 | 48705.632 | 8.534 | 0.140 | -0.520 | 0.189 | 0.415 |
| | 24-03-92 | 48705.709 | 8.554 | 0.141 | -0.530 | 0.191 | 0.429 |
| | 25-03-92 | 48706.580 | 8.507 | 0.139 | -0.536 | 0.169 | 0.412 |
| | 25-03-92 | 48706.602 | 8.513 | 0.140 | -0.542 | 0.183 | 0.429 |
| | 25-03-92 | 48706.624 | 8.532 | 0.138 | -0.552 | 0.199 | 0.418 |
| HD 87643 | 17-12-80 | 44591.801 | 8.65 | -- | -- | 0.63 | 1.20 |
| | 19-12-80 | 44593.843 | 8.52 | -- | -- | 0.59 | 1.14 |
| | 20-12-80 | 44594.735 | 8.52 | -- | -- | 0.59 | 1.15 |
| | 21-12-80 | 44595.847 | 8.56 | -- | -- | 0.61 | 1.20 |
| | 18-03-92 | 48699.612 | 8.910 | 0.638 | -0.575 | 0.598 | 1.088 |
| | 18-03-92 | 48699.635 | 8.906 | 0.640 | -0.596 | 0.594 | 1.090 |
| | 18-03-92 | 48699.665 | 8.913 | 0.651 | -0.585 | 0.589 | 1.094 |
| | 18-03-92 | 48699.767 | 8.950 | 0.635 | -0.589 | 0.589 | 1.108 |
| | 18-03-92 | 48699.788 | 8.924 | 0.635 | -0.599 | 0.579 | 1.090 |
| | 20-03-92 | 48701.563 | 8.942 | 0.628 | -0.596 | 0.591 | 1.069 |
| | 20-03-92 | 48701.688 | 8.981 | 0.640 | -0.606 | 0.593 | 1.106 |
| | 23-03-92 | 48704.636 | 8.916 | 0.619 | -0.588 | 0.568 | 1.072 |
| | 23-03-92 | 48704.692 | 8.924 | 0.641 | -0.596 | 0.582 | 1.064 |
| | 24-03-92 | 48705.622 | 8.941 | 0.636 | -0.585 | 0.585 | 1.064 |
| | 24-03-92 | 48705.712 | 8.979 | 0.620 | -0.583 | 0.595 | 1.076 |
| | 25-03-92 | 48706.647 | 8.996 | 0.616 | -0.628 | 0.617 | 1.077 |
| HD 89249 | 06-02-97 | 50486.489 | 8.899 | 0.730 | -0.515 | 0.626 | 1.269 |
| HR Car | 16-12-80 | 44590.774 | 8.33 | -- | -- | 0.67 | 1.33 |
| | 17-12-80 | 44591.799 | 8.34 | -- | -- | 0.66 | 1.32 |
| | 19-12-80 | 44593.843 | 8.35 | -- | -- | 0.66 | 1.32 |
| | 20-12-80 | 44594.734 | 8.38 | -- | -- | 0.66 | 1.32 |
| | 21-12-80 | 44595.845 | 8.38 | -- | -- | 0.67 | 1.33 |

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|------------|----------|-----------|---------|-------|--------|-------|--------|
| | 23-03-92 | 48704.612 | 7.442 | 1.013 | -0.173 | 0.718 | 1.461 |
| | 23-03-92 | 48704.650 | 7.441 | 1.029 | -0.175 | 0.722 | 1.454 |
| | 23-03-92 | 48704.711 | 7.451 | 1.032 | -0.182 | 0.727 | 1.449 |
| | 24-03-92 | 48705.656 | 7.443 | 1.026 | -0.176 | 0.726 | 1.455 |
| | 24-03-92 | 48705.788 | 7.475 | 1.024 | -0.173 | 0.730 | 1.455 |
| | 25-03-92 | 48706.654 | 7.454 | 1.021 | -0.191 | 0.721 | 1.447 |
| Hen 3-416 | 18-01-94 | 49371.797 | 10.593 | 1.581 | 0.509 | 1.043 | 2.229 |
| Wra 15-566 | 18-01-94 | 49371.803 | 13.902: | -- | -- | 2.232 | 5.219 |
| | 18-01-94 | 49371.813 | 13.871: | -- | -- | 2.201 | 5.200 |
| HD 90578 | 05-02-97 | 50485.479 | 9.330 | 0.098 | -0.754 | 0.100 | 0.183 |
| HD 92061 | 18-01-94 | 49371.819 | 8.969 | 0.094 | -0.668 | 0.058 | 0.150 |
| HD 94509 | 23-03-92 | 48704.745 | 9.132 | 0.026 | -0.112 | 0.030 | 0.035 |
| | 23-03-92 | 48704.788 | 9.132 | 0.024 | -0.123 | 0.024 | -0.006 |
| | 24-03-92 | 48705.625 | 9.120 | 0.027 | -0.141 | 0.022 | 0.017 |
| | 25-03-92 | 48706.605 | 9.081 | 0.032 | -0.131 | 0.003 | 0.008 |
| Wra 15-689 | 25-03-92 | 48706.697 | 10.539 | 0.331 | -0.462 | 0.287 | 0.576 |
| GG Car | 19-12-80 | 44593.777 | 8.75 | -- | -- | 0.63 | 1.10 |
| | 20-12-80 | 44594.849 | 8.73 | -- | -- | 0.64 | 1.13 |
| | 21-12-80 | 44595.835 | 8.75 | -- | -- | 0.65 | 1.14 |
| | 18-03-92 | 48699.630 | 8.976 | 0.546 | -0.752 | 0.661 | 1.135 |
| | 18-03-92 | 48699.650 | 8.973 | 1.790 | 2.118 | 0.967 | 2.261 |
| | 20-03-92 | 48701.626 | 9.006 | 1.778 | 2.040 | 0.977 | 2.253 |
| | 20-03-92 | 48701.704 | 9.030 | 1.774 | 2.034 | 0.992 | 2.264 |
| | 23-03-92 | 48704.688 | 8.900 | 0.610 | -0.708 | 0.649 | 1.133 |
| | 23-03-92 | 48704.715 | 8.905 | 0.611 | -0.699 | 0.667 | 1.147 |
| | 23-03-92 | 48704.818 | 8.885 | 0.608 | -0.665 | 0.679 | 1.112 |
| | 24-03-92 | 48705.652 | 8.832 | 0.606 | -0.672 | 0.634 | 1.114 |
| | 24-03-92 | 48705.784 | 8.846 | 0.612 | -0.663 | 0.645 | 1.115 |
| | 24-03-92 | 48705.791 | 8.856 | 0.608 | -0.664 | 0.650 | 1.130 |
| | 25-03-92 | 48706.650 | 8.708 | 0.609 | -0.699 | 0.611 | 1.082 |
| HD 305773 | 18-01-94 | 49371.831 | 9.081 | 0.160 | -0.670 | 0.183 | 0.193 |
| AG Car | 17-12-80 | 44591.847 | 6.86 | -- | -- | 0.55 | 0.98 |
| | 19-12-80 | 44593.776 | 6.82 | -- | -- | 0.54 | 0.96 |
| | 20-12-80 | 44594.849 | 6.83 | -- | -- | 0.54 | 0.96 |
| | 21-12-80 | 44595.838 | 6.81 | -- | -- | 0.53 | 0.96 |
| | 23-03-92 | 48704.608 | 6.947 | 0.618 | -0.584 | 0.461 | 0.918 |
| | 23-03-92 | 48704.645 | 6.957 | 0.612 | -0.596 | 0.461 | 0.922 |
| | 23-03-92 | 48704.707 | 6.961 | 0.627 | -0.599 | 0.478 | 0.918 |
| | 23-03-92 | 48704.816 | 6.947 | 0.631 | -0.570 | 0.472 | 0.894 |
| | 24-03-92 | 48705.654 | 6.961 | 0.616 | -0.591 | 0.477 | 0.934 |
| | 24-03-92 | 48705.786 | 6.996 | 0.612 | -0.582 | 0.483 | 0.943 |
| | 25-03-92 | 48706.652 | 6.979 | 0.623 | -0.628 | 0.478 | 0.929 |
| CD-76 486 | 19-12-80 | 44593.807 | 10.65 | -- | -- | 0.76 | 1.53 |
| | 20-12-80 | 44594.760 | 10.70 | -- | -- | 0.75 | 1.54 |
| | 21-12-80 | 44595.806 | 10.66 | -- | -- | 0.76 | 1.53 |
| HD 97048 | 22-02-79 | 43927 | 8.398 | -- | -- | 0.265 | 0.647 |
| | 21-03-80 | 44320 | 8.483 | -- | -- | 0.258 | 0.601 |
| | 23-03-80 | 44322 | 8.456 | -- | -- | 0.257 | 0.604 |
| | 19-12-80 | 44593.807 | 8.464 | -- | -- | 0.255 | 0.525 |
| | 20-12-80 | 44594.766 | 8.461 | -- | -- | 0.246 | 0.512 |
| | 21-12-80 | 44595.808 | 8.465 | -- | -- | 0.250 | 0.517 |
| | 26-06-85 | 46243.523 | 8.462 | 0.362 | 0.372 | -- | -- |

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|-----------|----------|-----------|--------|--------|--------|-------|-------|
| | 24-03-92 | 48705.602 | 8.458 | 0.343 | 0.175 | 0.242 | 0.483 |
| | 25-03-92 | 48706.620 | 8.439 | 0.361 | 0.156 | 0.237 | 0.487 |
| HD 97300 | 01-03-84 | 45761 | 9.077 | -- | -- | 0.311 | 0.704 |
| | 01-03-84 | 45761 | 9.081 | -- | -- | 0.323 | 0.707 |
| | 03-03-84 | 45763 | 9.080 | -- | -- | 0.295 | 0.698 |
| | 26-06-85 | 46243.534 | 9.021 | 0.408 | 0.288 | -- | -- |
| HD 98922 | 04-03-91 | 48319.739 | 6.757 | 0.066 | -0.101 | 0.070 | 0.155 |
| | 05-03-91 | 48320.748 | 6.753 | 0.040 | -0.115 | 0.051 | 0.118 |
| | 06-03-91 | 48321.758 | 6.749 | 0.054 | -0.004 | 0.057 | 0.158 |
| | 06-03-91 | 48321.762 | 6.749 | 0.055 | -0.007 | 0.059 | 0.156 |
| | 08-03-91 | 48323.597 | 6.729 | 0.056 | -0.085 | 0.057 | 0.152 |
| | 08-03-91 | 48323.601 | 6.720 | 0.076 | -0.101 | 0.038 | 0.152 |
| | 08-03-91 | 48323.752 | 6.758 | 0.049 | -0.052 | 0.052 | 0.149 |
| | 08-03-91 | 48323.756 | 6.760 | 0.048 | -0.058 | 0.059 | 0.139 |
| | 09-03-91 | 48324.604 | 6.722 | 0.066 | -0.074 | 0.054 | 0.123 |
| | 09-03-91 | 48324.608 | 6.729 | 0.064 | -0.077 | 0.059 | 0.157 |
| | 09-03-91 | 48324.851 | 6.769 | 0.048 | -0.076 | 0.075 | 0.160 |
| | 09-03-91 | 48324.855 | 6.763 | 0.044 | -0.064 | 0.062 | 0.121 |
| | 10-03-91 | 48325.739 | 6.739 | 0.059 | -0.094 | 0.059 | 0.153 |
| | 11-03-91 | 48326.785 | 6.761 | 0.045 | -0.097 | 0.066 | 0.148 |
| | 11-03-91 | 48326.791 | 6.764 | 0.044 | -0.095 | 0.066 | 0.137 |
| | 12-03-91 | 48327.808 | 6.761 | 0.045 | -0.090 | 0.061 | 0.139 |
| | 12-03-91 | 48327.813 | 6.768 | 0.035 | -0.088 | 0.062 | 0.141 |
| | 18-03-92 | 48699.605 | 6.761 | 0.043 | -0.043 | 0.045 | 0.120 |
| | 18-03-92 | 48699.618 | 6.742 | 0.046 | -0.040 | 0.040 | 0.116 |
| | 18-03-92 | 48699.660 | 6.745 | 0.055 | -0.045 | 0.040 | 0.126 |
| | 18-03-92 | 48699.762 | 6.792 | 0.046 | -0.053 | 0.059 | 0.134 |
| | 18-03-92 | 48699.793 | 6.792 | 0.042 | -0.049 | 0.054 | 0.128 |
| | 20-03-92 | 48701.537 | 6.766 | 0.040 | -0.052 | 0.053 | 0.123 |
| | 20-03-92 | 48701.585 | 6.773 | 0.034 | -0.050 | 0.056 | 0.117 |
| | 20-03-92 | 48701.597 | 6.768 | 0.041 | -0.059 | 0.059 | 0.114 |
| | 20-03-92 | 48701.637 | 6.772 | 0.049 | -0.054 | 0.051 | 0.122 |
| | 20-03-92 | 48701.671 | 6.787 | 0.052 | -0.055 | 0.055 | 0.132 |
| | 20-03-92 | 48701.723 | 6.800 | 0.040 | -0.056 | 0.061 | 0.127 |
| | 20-03-92 | 48701.736 | 6.795 | 0.045 | -0.054 | 0.046 | 0.119 |
| | 20-03-92 | 48701.841 | 6.809 | 0.049 | -0.060 | 0.058 | 0.132 |
| | 23-03-92 | 48704.597 | 6.750 | 0.063 | -0.058 | 0.046 | 0.124 |
| | 23-03-92 | 48704.695 | 6.777 | 0.042 | -0.045 | 0.057 | 0.127 |
| | 23-03-92 | 48704.741 | 6.771 | 0.048 | -0.037 | 0.054 | 0.143 |
| | 24-03-92 | 48705.635 | 6.764 | 0.049 | -0.055 | 0.056 | 0.122 |
| | 24-03-92 | 48705.686 | 6.781 | 0.043 | -0.061 | 0.057 | 0.131 |
| | 25-03-92 | 48706.607 | 6.731 | 0.044 | -0.058 | 0.033 | 0.109 |
| | 25-03-92 | 48706.626 | 6.745 | 0.048 | -0.059 | 0.037 | 0.114 |
| | 17-01-94 | 49370.821 | 6.754 | 0.028 | -0.038 | 0.053 | 0.163 |
| HD 100546 | 20-03-92 | 48701.837 | 6.732 | 0.027 | -0.097 | 0.033 | 0.065 |
| | 24-03-92 | 48705.643 | 6.697 | 0.013 | -0.100 | 0.015 | 0.033 |
| | 25-03-92 | 48706.633 | 6.690 | 0.012 | -0.096 | 0.024 | 0.026 |
| | 17-01-94 | 49370.829 | 6.737 | -0.003 | -0.074 | 0.034 | 0.045 |
| HD 101412 | 18-03-92 | 48699.645 | 9.235 | 0.172 | 0.129 | 0.112 | 0.244 |
| | 20-03-92 | 48701.547 | 9.246 | 0.184 | 0.093 | 0.095 | 0.189 |
| | 20-03-92 | 48701.716 | 9.277 | 0.173 | 0.113 | 0.110 | 0.216 |
| | 24-03-92 | 48705.648 | 9.253 | 0.182 | 0.101 | 0.115 | 0.223 |
| | 25-03-92 | 48706.635 | 9.239 | 0.189 | 0.121 | 0.110 | 0.224 |
| | 17-01-94 | 49370.837 | 9.263 | 0.171 | 0.121 | 0.098 | 0.250 |
| V644 Cen | 06-02-97 | 50484.590 | 10.520 | 0.117 | -0.050 | 0.118 | 0.299 |
| HD 104237 | 04-03-91 | 48319.745 | 6.567 | 0.264 | 0.000 | 0.164 | 0.337 |
| | 05-03-91 | 48320.719 | 6.545 | 0.251 | -0.087 | 0.126 | 0.267 |

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|------------|----------|-----------|--------|-------|--------|-------|-------|
| | 06-03-91 | 48321.730 | 6.534 | 0.246 | 0.119 | 0.133 | 0.315 |
| | 06-03-91 | 48321.738 | 6.551 | 0.240 | 0.120 | 0.141 | 0.314 |
| | 06-03-91 | 48321.745 | 6.527 | 0.246 | 0.132 | 0.135 | 0.300 |
| | 06-03-91 | 48321.750 | 6.529 | 0.237 | 0.135 | 0.139 | 0.325 |
| | 06-03-91 | 48321.754 | 6.531 | 0.241 | 0.120 | 0.137 | 0.325 |
| | 08-03-91 | 48323.720 | 6.582 | 0.240 | -0.027 | 0.162 | 0.350 |
| | 08-03-91 | 48323.724 | 6.573 | 0.247 | -0.015 | 0.156 | 0.341 |
| | 08-03-91 | 48323.728 | 6.559 | 0.256 | -0.020 | 0.155 | 0.328 |
| | 08-03-91 | 48323.732 | 6.560 | 0.255 | -0.043 | 0.156 | 0.317 |
| | 08-03-91 | 48323.737 | 6.566 | 0.238 | -0.006 | 0.153 | 0.297 |
| | 09-03-91 | 48324.716 | 6.561 | 0.243 | 0.053 | 0.153 | 0.293 |
| | 09-03-91 | 48324.724 | 6.555 | 0.254 | 0.061 | 0.153 | 0.305 |
| | 09-03-91 | 48324.728 | 6.566 | 0.239 | 0.066 | 0.163 | 0.312 |
| | 09-03-91 | 48324.733 | 6.565 | 0.246 | 0.057 | 0.149 | 0.296 |
| | 09-03-91 | 48324.737 | 6.565 | 0.257 | 0.061 | 0.150 | 0.269 |
| | 09-03-91 | 48324.780 | 6.575 | 0.240 | 0.068 | 0.164 | 0.314 |
| | 09-03-91 | 48324.784 | 6.569 | 0.243 | 0.055 | 0.152 | 0.282 |
| | 10-03-91 | 48325.742 | 6.553 | 0.237 | -0.005 | 0.159 | 0.311 |
| | 11-03-91 | 48326.711 | 6.539 | 0.244 | -0.005 | 0.147 | 0.311 |
| | 11-03-91 | 48326.717 | 6.544 | 0.238 | -0.001 | 0.149 | 0.319 |
| | 13-03-91 | 48328.708 | 6.568 | 0.232 | 0.016 | 0.173 | 0.321 |
| | 13-03-91 | 48328.714 | 6.554 | 0.236 | 0.007 | 0.148 | 0.296 |
| | 18-03-92 | 48699.625 | 6.524 | 0.218 | 0.028 | 0.118 | 0.277 |
| | 18-03-92 | 48699.654 | 6.519 | 0.228 | 0.027 | 0.118 | 0.297 |
| | 18-03-92 | 48699.758 | 6.544 | 0.230 | -0.003 | 0.119 | 0.290 |
| | 18-03-92 | 48699.798 | 6.561 | 0.219 | 0.000 | 0.124 | 0.293 |
| | 20-03-92 | 48701.680 | 6.569 | 0.229 | -0.006 | 0.139 | 0.315 |
| | 20-03-92 | 48701.707 | 6.591 | 0.206 | -0.007 | 0.148 | 0.303 |
| | 20-03-92 | 48701.740 | 6.578 | 0.214 | -0.011 | 0.148 | 0.301 |
| | 23-03-92 | 48704.626 | 6.530 | 0.227 | 0.000 | 0.126 | 0.260 |
| | 23-03-92 | 48704.699 | 6.549 | 0.224 | 0.002 | 0.135 | 0.272 |
| | 24-03-92 | 48705.639 | 6.562 | 0.225 | -0.075 | 0.134 | 0.291 |
| | 24-03-92 | 48705.689 | 6.575 | 0.197 | -0.046 | 0.136 | 0.312 |
| | 24-03-92 | 48705.774 | 6.543 | 0.197 | -0.053 | 0.128 | 0.289 |
| | 25-03-92 | 48706.594 | 6.494 | 0.197 | -0.087 | 0.131 | 0.287 |
| | 25-03-92 | 48706.629 | 6.519 | 0.210 | -0.088 | 0.137 | 0.285 |
| RU Cen | 17-01-94 | 49370.798 | 8.632 | 0.765 | 0.415 | 0.427 | 0.898 |
| Hen 3-759 | 06-02-97 | 50484.610 | 10.465 | 0.182 | -0.440 | 0.146 | 0.362 |
| CD-48 7859 | 04-03-91 | 48319.767 | 10.647 | 0.056 | -0.267 | 0.121 | 0.219 |
| | 05-03-91 | 48320.738 | 10.582 | 0.069 | -0.323 | 0.125 | 0.266 |
| | 06-03-91 | 48321.767 | 10.565 | 0.101 | -0.253 | 0.103 | 0.222 |
| | 06-03-91 | 48321.772 | 10.561 | 0.104 | -0.231 | 0.093 | 0.015 |
| | 06-03-91 | 48321.777 | 10.579 | 0.100 | -0.179 | 0.113 | 0.369 |
| | 06-03-91 | 48321.781 | 10.583 | 0.099 | -0.209 | 0.137 | 0.248 |
| | 06-03-91 | 48321.786 | 10.583 | 0.069 | -0.184 | 0.130 | 0.181 |
| | 06-03-91 | 48321.803 | 10.582 | 0.091 | -0.228 | 0.125 | 0.160 |
| | 06-03-91 | 48321.808 | 10.587 | 0.099 | -0.210 | 0.133 | 0.234 |
| | 08-03-91 | 48323.740 | 10.581 | 0.066 | -0.336 | 0.143 | 0.387 |
| | 08-03-91 | 48323.744 | 10.568 | 0.084 | -0.322 | 0.125 | 0.370 |
| | 08-03-91 | 48323.767 | 10.579 | 0.077 | -0.384 | 0.132 | 0.334 |
| | 08-03-91 | 48323.771 | 10.575 | 0.094 | -0.348 | 0.135 | 0.240 |
| | 08-03-91 | 48323.781 | 10.586 | 0.069 | -0.360 | 0.144 | 0.172 |
| | 08-03-91 | 48323.785 | 10.586 | 0.069 | -0.307 | 0.141 | 0.189 |
| | 08-03-91 | 48323.831 | 10.586 | 0.085 | -0.412 | 0.128 | 0.207 |
| | 08-03-91 | 48323.835 | 10.575 | 0.081 | -0.353 | 0.136 | 0.283 |
| | 09-03-91 | 48324.752 | 10.614 | 0.075 | -0.314 | 0.146 | 0.436 |
| | 09-03-91 | 48324.756 | 10.597 | 0.097 | -0.295 | 0.141 | 0.238 |
| | 09-03-91 | 48324.761 | 10.597 | 0.100 | -0.381 | 0.129 | 0.347 |
| | 09-03-91 | 48324.765 | 10.594 | 0.110 | -0.326 | 0.131 | 0.125 |
| | 09-03-91 | 48324.769 | 10.600 | 0.091 | -0.312 | 0.142 | 0.266 |

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| | 09-03-91 | 48324.787 | 10.620 | 0.080 | -0.374 | 0.141 | 0.371 | |
| | 09-03-91 | 48324.792 | 10.604 | 0.103 | -0.352 | 0.139 | 0.138 | |
| | 10-03-91 | 48325.746 | 10.598 | 0.088 | -0.327 | 0.140 | 0.282 | |
| | 10-03-91 | 48325.804 | 10.590 | 0.071 | -0.375 | 0.143 | 0.279 | |
| | 10-03-91 | 48325.811 | 10.586 | 0.088 | -0.396 | 0.146 | 0.273 | |
| | 13-03-91 | 48328.718 | 10.559 | 0.090 | -0.353 | 0.115 | 0.242 | |
| | 13-03-91 | 48328.724 | 10.580 | 0.077 | -0.367 | 0.136 | 0.251 | |
| | 23-03-92 | 48704.720 | 10.605 | 0.089 | -0.314 | 0.133 | 0.276 | |
| | 23-03-92 | 48704.799 | 10.610 | 0.072 | -0.307 | 0.142 | 0.251 | |
| | 23-03-92 | 48704.857 | 10.603 | 0.082 | -0.323 | 0.134 | 0.244 | |
| | 24-03-92 | 48705.617 | 10.595 | 0.089 | -0.302 | 0.111 | 0.244 | |
| | 24-03-92 | 48705.694 | 10.600 | 0.097 | -0.295 | 0.127 | 0.218 | |
| LSS 3027B | 28-01-87 | 46824 | 15.243 | 1.032: | -0.341: | 0.854 | 1.745 | |
| | 28-01-87 | 46824 | 15.169 | 0.826: | -0.085: | 0.866 | 1.667 | |
| HD 130437 | 23-03-92 | 48704.751 | 9.882 | 0.732 | -0.395 | 0.531 | 1.126 | |
| | 23-03-92 | 48704.794 | 9.888 | 0.736 | -0.435 | 0.542 | 1.096 | |
| | 23-03-92 | 48704.848 | 9.909 | 0.717 | -0.423 | 0.559 | 1.114 | |
| | 23-03-92 | 48704.881 | 9.911 | 0.714 | -0.402 | 0.556 | 1.117 | |
| | 25-03-92 | 48706.642 | 9.889 | 0.735 | -0.470 | 0.538 | 1.097 | |
| | 25-03-92 | 48706.691 | 9.910 | 0.709 | -0.446 | 0.553 | 1.097 | |
| | 06-02-97 | 50486.590 | 9.854 | 0.737 | -0.432 | 0.574 | 1.243 | |
| SS73 44 | 06-02-97 | 50486.617 | 16.80: | -- | -- | -- | -- | Correct Star? |
| | 08-02-97 | 50488.570 | 14.745 | 1.118 | 0.089 | 0.789 | 1.694 | Correct Star? |
| HD 132947 | 06-02-97 | 50486.624 | 8.913 | 0.048 | -0.086 | 0.017 | 0.017 | |
| HD 141569 | 23-03-92 | 48704.762 | 7.103 | 0.102 | 0.031 | 0.069 | 0.147 | |
| HD 144432 | 06-02-97 | 50486.612 | 8.166 | 0.358 | 0.108 | 0.233 | 0.453 | |
| HR 5999 | 22-02-79 | 43927 | 6.822 | -- | -- | 0.229 | 0.553 | |
| | 22-02-79 | 43927 | 6.896 | -- | -- | 0.269 | 0.547 | |
| | 03-09-81 | 44851 | 6.895 | -- | -- | 0.239 | 0.488 | |
| | 04-09-81 | 44852 | 6.798 | -- | -- | 0.204 | 0.438 | |
| | 06-09-81 | 44854 | 6.792 | -- | -- | 0.231 | 0.462 | |
| | 10-09-81 | 44858 | 6.878 | -- | -- | 0.223 | 0.476 | |
| | 11-09-81 | 44859 | 6.934 | -- | -- | 0.228 | 0.488 | |
| | 12-09-81 | 44860 | 6.929 | -- | -- | 0.236 | 0.497 | |
| | 05-08-86 | 46648 | 7.006 | 0.327 | 0.234 | 0.229 | 0.475 | |
| | 08-08-86 | 46651 | 6.971 | 0.342 | 0.217 | 0.217 | 0.440 | |
| | 08-03-91 | 48323.840 | 6.991 | 0.344 | 0.179 | 0.236 | 0.482 | |
| | 08-03-91 | 48323.845 | 6.993 | 0.349 | 0.165 | 0.239 | 0.481 | |
| | 18-03-92 | 48699.772 | 6.846 | 0.309 | 0.160 | 0.204 | 0.421 | |
| | 18-03-92 | 48699.782 | 6.838 | 0.318 | 0.160 | 0.197 | 0.426 | |
| | 20-03-92 | 48701.727 | 6.823 | 0.323 | 0.117 | 0.210 | 0.433 | |
| | 20-03-92 | 48701.744 | 6.820 | 0.319 | 0.139 | 0.203 | 0.424 | |
| | 20-03-92 | 48701.827 | 6.819 | 0.308 | 0.155 | 0.213 | 0.433 | |
| | 20-03-92 | 48701.866 | 6.819 | 0.309 | 0.157 | 0.208 | 0.437 | |
| | 20-03-92 | 48701.903 | 6.826 | 0.305 | 0.156 | 0.209 | 0.438 | |
| | 23-03-92 | 48704.703 | 6.777 | 0.328 | 0.169 | 0.210 | 0.404 | |
| | 23-03-92 | 48704.811 | 6.827 | 0.304 | 0.169 | 0.213 | 0.428 | |
| | 23-03-92 | 48704.862 | 6.846 | 0.304 | 0.164 | 0.211 | 0.442 | |
| | 23-03-92 | 48704.889 | 6.843 | 0.316 | 0.153 | 0.206 | 0.438 | |
| | 24-03-92 | 48705.717 | 6.848 | 0.323 | 0.153 | 0.210 | 0.429 | |
| | 24-03-92 | 48705.844 | 6.835 | 0.315 | 0.175 | 0.215 | 0.458 | |
| | 24-03-92 | 48705.876 | 6.847 | 0.328 | 0.178 | 0.210 | 0.455 | |
| HR 6000 | 22-02-79 | 43927 | 6.695 | -- | -- | -0.005 | 0.045 | |
| | 22-02-79 | 43927 | 6.723 | -- | -- | 0.029 | 0.140 | |
| | 03-09-81 | 44851 | 6.723 | -- | -- | 0.018 | 0.025 | |

| | | | | | | | |
|------------|----------|-----------|---------|--------|---------|--------|--------|
| | 04-09-81 | 44852 | 6.647 | -- | -- | -0.009 | -0.026 |
| | 06-09-81 | 44854 | 6.651 | -- | -- | -0.027 | -0.042 |
| | 10-09-81 | 44858 | 6.659 | -- | -- | 0.001 | -0.004 |
| | 11-09-81 | 44859 | 6.645 | -- | -- | -0.017 | 0.006 |
| | 12-09-81 | 44860 | 6.721 | -- | -- | 0.051 | 0.057 |
| HD 147196 | 10-03-91 | 48326 | 7.027 | 0.164 | -0.152 | 0.115 | 0.246 |
| | 11-03-91 | 48327 | 7.040 | 0.158 | -0.168 | 0.127 | 0.252 |
| | 13-03-91 | 48329 | 6.996 | 0.180 | -0.168 | 0.116 | 0.247 |
| | 14-03-91 | 48330 | 7.021 | 0.166 | -0.160 | 0.103 | 0.286 |
| | 24-03-92 | 48705.823 | 7.031 | 0.164 | -0.135 | 0.116 | 0.241 |
| Hen 3-1191 | 05-03-91 | 48320.789 | 13.485: | 1.068: | -0.372: | 0.992: | 1.302: |
| | 06-03-91 | 48321.793 | 13.907: | 0.771: | 0.873: | 1.310: | 1.812: |
| | 06-03-91 | 48321.799 | 13.733: | 1.113: | -0.269: | 1.228: | 0.852: |
| | 06-03-91 | 48321.850 | 13.878: | 0.980: | -1.194: | 1.242: | 1.576: |
| | 06-03-91 | 48321.856 | 13.899: | 0.624: | -0.546: | 1.248: | 1.936: |
| | 06-03-91 | 48321.870 | 13.566: | 1.152: | -0.381: | 0.946: | 0.832: |
| | 06-03-91 | 48321.875 | 13.821: | 0.943: | -0.717: | 1.119: | 1.652: |
| | 06-03-91 | 48321.881 | 13.735: | 1.134: | -0.054: | 1.158: | 1.824: |
| | 06-03-91 | 48321.889 | 13.779: | 0.995: | -- | 1.165: | 2.208: |
| | 06-03-91 | 48321.900 | 13.861: | 1.683: | -0.360: | 1.288: | 0.651: |
| | 08-03-91 | 48323.751 | 13.658: | 0.990: | -0.044: | 1.140: | 1.715: |
| | 08-03-91 | 48323.757 | 13.686: | 0.889: | -0.036: | 1.152: | 1.611: |
| | 08-03-91 | 48323.795 | 13.744: | 0.922: | 0.299: | 1.150: | 1.686: |
| | 08-03-91 | 48323.801 | 13.726: | 0.936: | -0.072: | 1.206: | 1.773: |
| | 08-03-91 | 48323.807 | 13.698: | 0.940: | 0.473: | 1.097: | 1.405: |
| | 08-03-91 | 48323.812 | 13.803: | 0.869: | -0.403: | 1.267: | 1.604: |
| | 08-03-91 | 48323.817 | 13.685: | 1.051: | -0.130: | 1.157: | 1.726: |
| | 08-03-91 | 48323.864 | 13.737: | 0.870: | -0.372: | 1.130: | 1.361: |
| | 08-03-91 | 48323.870 | 13.740: | 0.978: | 0.502: | 1.153: | 1.911: |
| | 08-03-91 | 48323.875 | 13.673: | 0.975: | -0.550: | 1.065: | 1.051: |
| | 08-03-91 | 48323.880 | 13.705: | 0.885: | -0.189: | 1.110: | 1.611: |
| | 08-03-91 | 48323.885 | 13.713: | 1.033: | -0.123: | 1.126: | 1.760: |
| | 09-03-91 | 48323.809 | 13.470: | 0.812: | 1.209: | 1.136: | 1.774: |
| | 09-03-91 | 48324.814 | 13.718: | 0.945: | 0.255: | 1.011: | 2.038: |
| | 09-03-91 | 48324.819 | 13.824: | 0.839: | -0.719: | 1.191: | 2.289: |
| | 09-03-91 | 48324.825 | 13.769: | 0.934: | 0.354: | 1.650: | 1.778: |
| | 09-03-91 | 48324.830 | 13.743: | 1.016: | 2.086: | 1.104: | 1.807: |
| | 09-03-91 | 48324.860 | 13.760: | 0.905: | -0.834: | 1.153: | 1.511: |
| | 09-03-81 | 48324.865 | 13.770: | 0.912: | -0.537: | 1.155: | 1.167: |
| | 09-03-81 | 48324.870 | 13.783: | 0.998: | -0.709: | 1.180: | 1.665: |
| | 09-03-91 | 48324.875 | 13.866: | 0.831: | -0.196: | 1.184: | 0.734: |
| | 09-03-91 | 48324.880 | 13.750: | 0.939: | -0.654: | 1.137: | 1.530: |
| | 09-03-91 | 48324.897 | 13.791: | 1.121: | -0.857: | 1.176: | 1.733: |
| | 09-03-91 | 48324.902 | 13.878: | 1.923: | -- | 1.288: | 1.625: |
| | 10-03-91 | 48325.820 | 13.865: | 1.123: | -0.430: | 1.109: | 1.558: |
| | 11-03-91 | 48326.827 | 13.841: | 0.847: | -0.285: | 1.213: | 1.641: |
| | 11-03-91 | 48326.835 | 13.765: | 0.995: | -0.450: | 1.182: | 1.667: |
| | 13-03-91 | 48328.736 | 13.716: | 0.892: | -0.475: | 1.149: | 1.613: |
| | 13-03-91 | 48328.743 | 13.774: | 0.882: | -0.145: | 1.208: | 1.486: |
| | 23-03-92 | 48704.827 | 12.628 | 0.626: | 0.073: | 0.429: | 0.992: |
| | 24-03-92 | 48705.839 | 12.626 | 0.628: | -0.041: | 0.477: | 0.905: |
| | 24-03-92 | 48705.870 | 13.808 | 0.923: | -0.290: | 1.241: | 1.448: |
| | 24-03-92 | 48705.892 | 12.610 | 0.690: | 0.107: | 0.450: | 1.000: |
| | 08-02-97 | 50488.610 | 12.515 | 0.686 | 0.066 | 0.512 | 1.160 |
| HD 150193 | 08-06-83 | 45492 | 8.820 | -- | -- | 0.375 | 0.901 |
| | 12-06-83 | 45496 | 8.851 | -- | -- | 0.384 | 0.863 |
| | 13-06-83 | 45497 | 8.860 | -- | -- | 0.393 | 0.861 |
| | 13-07-85 | 46260 | 8.797 | 0.532 | 0.339 | 0.381 | 0.868 |
| | 19-07-85 | 46266 | 8.804 | 0.539 | 0.376 | 0.380 | 0.884 |
| | 18-03-92 | 48699.777 | 8.822 | 0.537 | 0.307 | 0.364 | 0.784 |

| | | | | | | | |
|-------------|----------|-----------|--------|--------|---------|--------|--------|
| | 18-03-92 | 48699.803 | 8.842 | 0.522 | 0.338 | 0.353 | 0.792 |
| | 20-03-92 | 48701.748 | 8.827 | 0.524 | 0.291 | 0.382 | 0.823 |
| | 20-03-92 | 48701.849 | 8.838 | 0.518 | 0.324 | 0.369 | 0.791 |
| | 23-03-92 | 48704.867 | 8.845 | 0.514 | 0.310 | 0.380 | 0.808 |
| | 24-03-92 | 48705.900 | 8.823 | 0.531 | 0.309 | 0.371 | 0.817 |
| AK Sco | 05-08-86 | 46648 | 8.989 | 0.637 | 0.284 | 0.383 | 0.747 |
| | 08-08-86 | 46651 | 9.179 | 0.707 | 0.273 | 0.438 | 0.789 |
| | 01-02-87 | 46828.004 | 8.899 | 0.632 | 0.029 | 0.355 | 0.724 |
| | 05-06-87 | 46951.681 | 8.956 | 0.638 | 0.169 | 0.351 | 0.662 |
| | 06-07-87 | 46982.510 | 9.036 | 0.655 | 0.204 | 0.381 | 0.733 |
| HD 322422 | 20-03-92 | 48701.816 | 9.691 | 0.223 | -0.488 | 0.227 | 0.448 |
| | 20-03-92 | 48701.854 | 9.702 | 0.204 | -0.476 | 0.247 | 0.449 |
| | 23-03-92 | 48704.872 | 9.710 | 0.200 | -0.465 | 0.227 | 0.463 |
| | 24-03-92 | 48705.769 | 9.677 | 0.227 | -0.487 | 0.224 | 0.451 |
| | 24-03-92 | 48705.856 | 9.711 | 0.209 | -0.477 | 0.249 | 0.479 |
| | 24-03-92 | 48705.883 | 9.709 | 0.219 | -0.460 | 0.203 | 0.456 |
| CD-42 11721 | 05-08-86 | 46648 | 11.110 | 1.341 | -- | 1.219 | 2.224 |
| | 08-08-86 | 46651 | 11.159 | 1.376 | -0.209 | 1.305 | 2.243 |
| | 20-03-92 | 48701.764 | 11.349 | 1.195: | -0.220: | 1.217: | 2.044: |
| | 23-03-92 | 48704.836 | 11.333 | 1.279: | -0.175: | 1.227: | 2.074: |
| | 23-03-92 | 48704.893 | 11.361 | 1.197: | -0.161: | 1.241: | 2.104: |
| | 24-03-92 | 48705.755 | 11.336 | 1.301 | -0.226 | 1.236 | 2.053 |
| | 24-03-92 | 48705.849 | 11.300 | 1.313 | -0.213 | 1.194 | 2.051 |
| HD 326823 | 20-03-92 | 48701.820 | 9.038 | 0.857 | -0.304 | 0.569 | 1.184 |
| | 20-03-92 | 48701.858 | 9.044 | 0.846 | -0.314 | 0.573 | 1.198 |
| | 23-03-92 | 48704.808 | 8.976 | 0.870 | -0.314 | 0.583 | 1.200 |
| | 23-03-92 | 48704.832 | 8.987 | 0.863 | -0.316 | 0.584 | 1.200 |
| | 23-03-92 | 48704.852 | 8.992 | 0.865 | -0.314 | 0.589 | 1.210 |
| | 23-03-92 | 48704.898 | 9.004 | 0.846 | -0.324 | 0.580 | 1.229 |
| | 24-03-92 | 48705.759 | 8.997 | 0.881 | -0.322 | 0.580 | 1.205 |
| | 24-03-92 | 48705.852 | 9.016 | 0.850 | -0.285 | 0.604 | 1.234 |
| KK Oph | 05-09-81 | 44853 | 11.324 | -- | -- | 0.488 | 1.136 |
| | 06-09-81 | 44854 | 11.394 | -- | -- | 0.491 | 1.110 |
| | 09-09-81 | 44857 | 11.442 | -- | -- | 0.478 | 1.083 |
| | 12-09-81 | 44860 | 11.485 | -- | -- | 0.528 | 1.206 |
| | 12-06-83 | 45498 | 12.111 | -- | -- | 0.514 | 1.175 |
| | 13-06-83 | 45499 | 11.905 | -- | -- | 0.593 | 1.250 |
| | 13-07-85 | 46260 | 12.357 | 0.605 | 0.200 | 0.526 | 1.325 |
| HD 156702 | 20-03-92 | 48701.756 | 8.713 | 0.197 | -0.574 | 0.207 | 0.428 |
| | 24-03-92 | 48705.828 | 8.703 | 0.198 | -0.547 | 0.203 | 0.440 |
| | 24-03-92 | 48705.864 | 8.704 | 0.193 | -0.543 | 0.208 | 0.446 |
| | 24-03-92 | 48705.896 | 8.715 | 0.193 | -0.536 | 0.217 | 0.457 |
| 51 Oph | 20-03-92 | 48701.810 | 4.787 | 0.029 | -0.072 | 0.034 | 0.075 |
| | 20-03-92 | 48701.824 | 4.785 | 0.024 | -0.072 | 0.024 | 0.067 |
| | 20-03-92 | 48701.862 | 4.781 | 0.026 | -0.059 | 0.022 | 0.067 |
| | 20-03-92 | 48701.910 | 4.787 | 0.025 | -0.050 | 0.021 | 0.065 |
| | 23-03-92 | 48704.877 | 4.785 | 0.016 | -0.056 | 0.028 | 0.070 |
| | 24-03-92 | 48705.779 | 4.771 | 0.016 | -0.070 | 0.021 | 0.053 |
| | 24-03-92 | 48705.861 | 4.779 | 0.022 | -0.056 | 0.027 | 0.074 |
| XX Oph | 09-10-81 | 44887 | 8.984 | -- | -- | 0.896 | 1.948 |
| | 10-10-81 | 44888 | 8.971 | -- | -- | 0.873 | 1.941 |
| | 11-10-81 | 44889 | 8.997 | -- | -- | 0.909 | 1.944 |
| | 12-10-81 | 44890 | 8.980 | -- | -- | 0.899 | 1.943 |
| | 18-07-85 | 46265 | 8.800 | 1.025 | -0.202 | 0.835 | 2.036 |

| | | | | | | | |
|-----------|----------|-----------|--------|-------|--------|-------|-------|
| HD 163296 | 24-03-80 | 44323 | 6.840 | -- | -- | 0.066 | 0.150 |
| | 26-03-80 | 44325 | 6.817 | -- | -- | 0.075 | 0.180 |
| | 30-03-80 | 44329 | 6.841 | -- | -- | 0.073 | 0.170 |
| | 05-08-86 | 46648 | 6.879 | 0.130 | 0.058 | 0.062 | 0.159 |
| | 08-08-86 | 46651 | 6.851 | 0.118 | 0.072 | 0.050 | 0.156 |
| | 20-03-92 | 48701.805 | 6.872 | 0.098 | 0.033 | 0.077 | 0.150 |
| | 20-03-92 | 48701.831 | 6.867 | 0.104 | 0.027 | 0.069 | 0.147 |
| | 20-03-92 | 48701.846 | 6.875 | 0.110 | 0.035 | 0.070 | 0.134 |
| | 20-03-92 | 48701.906 | 6.862 | 0.116 | 0.041 | 0.057 | 0.132 |
| | 23-03-92 | 48704.804 | 6.826 | 0.111 | 0.032 | 0.057 | 0.092 |
| | 23-03-92 | 48704.843 | 6.833 | 0.105 | 0.028 | 0.058 | 0.122 |
| | 23-03-92 | 48704.885 | 6.847 | 0.096 | 0.021 | 0.060 | 0.146 |
| | 24-03-92 | 48705.796 | 6.835 | 0.107 | 0.007 | 0.060 | 0.133 |
| | 24-03-92 | 48705.831 | 6.841 | 0.104 | 0.014 | 0.061 | 0.132 |
| | 24-03-92 | 48705.879 | 6.852 | 0.105 | 0.039 | 0.053 | 0.135 |
| LkHa 112 | 12-07-85 | 46259 | 9.955 | 0.199 | -0.716 | 0.228 | 0.472 |
| | 13-07-85 | 46260 | 9.978 | 0.209 | -0.731 | 0.221 | 0.449 |
| HD 164906 | 12-07-85 | 46259 | 7.461 | 0.184 | -0.848 | 0.226 | 0.446 |
| | 13-07-85 | 46260 | 7.482 | 0.188 | -0.858 | 0.226 | 0.455 |
| LkHa 115 | 13-06-83 | 45499 | 11.95 | -- | -- | 0.34 | 0.70 |
| | 12-07-85 | 46259 | 11.95 | 0.39 | -0.22 | 0.34 | 0.68 |
| LkHa 118 | 08-06-83 | 45494 | 11.106 | -- | -- | 0.638 | 1.515 |
| | 12-06-83 | 45498 | 11.181 | -- | -- | 0.669 | 1.384 |
| | 13-06-83 | 45499 | 11.174 | -- | -- | 0.682 | 1.379 |
| | 11-07-85 | 46258 | 11.145 | 0.866 | -0.293 | 0.697 | 1.386 |
| | 12-07-85 | 46259 | 11.158 | 0.883 | -0.267 | 0.709 | 1.302 |
| | 13-07-85 | 46260 | 11.181 | 0.878 | -0.318 | 0.656 | 1.360 |
| LkHa 119 | 08-06-83 | 45494 | 12.119 | -- | -- | 0.584 | 1.403 |
| | 12-06-83 | 45498 | 12.176 | -- | -- | 0.618 | 1.279 |
| | 13-06-83 | 45499 | 12.160 | -- | -- | 0.622 | 1.271 |
| | 11-07-85 | 46258 | 12.167 | 0.817 | 0.104 | 0.642 | 1.280 |
| | 12-07-85 | 46259 | 12.145 | 0.816 | 0.070 | 0.650 | 1.214 |
| | 13-07-85 | 46260 | 12.169 | 0.845 | 0.097 | 0.626 | 1.235 |
| MWC 297 | 10-09-81 | 44858 | 12.173 | -- | -- | 1.838 | 3.228 |
| | 10-09-81 | 44858 | 12.162 | -- | -- | 1.845 | 3.216 |
| | 11-09-81 | 44859 | 12.178 | -- | -- | 1.842 | 3.214 |
| | 12-09-81 | 44860 | 12.141 | -- | -- | 1.818 | 3.188 |
| | 18-07-85 | 46265 | 12.033 | 2.243 | 0.665 | 1.847 | 3.229 |
| VV Ser | 09-10-81 | 44887 | 11.893 | -- | -- | 0.706 | 1.439 |
| | 10-10-81 | 44888 | 11.814 | -- | -- | 0.682 | 1.450 |
| | 11-10-81 | 44889 | 11.827 | -- | -- | 0.670 | 1.386 |
| | 12-10-81 | 44890 | 11.928 | -- | -- | 0.724 | 1.465 |
| MWC 300 | 18-07-85 | 46265 | 11.778 | 1.036 | -0.104 | 0.691 | 1.202 |
| AS 310 | 18-07-85 | 46265 | 12.588 | 0.975 | -0.009 | 0.661 | 1.384 |
| HD 176376 | 03-09-81 | 44851 | 7.300 | -- | -- | 0.101 | 0.224 |
| | 05-09-81 | 44853 | 7.268 | -- | -- | 0.093 | 0.230 |
| | 06-09-81 | 44854 | 7.295 | -- | -- | 0.093 | 0.224 |
| | 09-10-81 | 44857 | 7.288 | -- | -- | 0.093 | 0.223 |
| | 12-07-81 | 46259 | 7.278 | 0.117 | -0.070 | 0.109 | 0.198 |
| | 13-07-81 | 46260 | 7.283 | 0.131 | -0.055 | 0.093 | 0.218 |
| TY CrA | 03-09-81 | 44851 | 9.420 | -- | -- | 0.427 | 0.974 |
| | 05-09-81 | 44853 | 9.380 | -- | -- | 0.412 | 0.953 |

| | | | | | | | |
|--------|----------|-------|--------|-------|-------|-------|-------|
| | 06-09-81 | 44854 | 9.432 | -- | -- | 0.427 | 0.969 |
| | 09-10-81 | 44887 | 9.442 | -- | -- | 0.440 | 0.987 |
| | 12-07-85 | 46259 | 9.406 | 0.555 | 0.061 | 0.512 | 0.835 |
| | 13-07-85 | 46260 | 9.410 | 0.557 | 0.068 | 0.429 | 1.016 |
| R CrA | 03-09-81 | 44851 | 12.533 | -- | -- | 0.755 | 1.743 |
| | 05-09-81 | 44853 | 12.649 | -- | -- | 0.781 | 1.753 |
| | 06-09-81 | 44854 | 12.691 | -- | -- | 0.704 | 1.722 |
| | 09-09-81 | 44857 | 12.437 | -- | -- | 0.636 | 1.598 |
| | 10-09-81 | 44858 | 12.443 | -- | -- | 0.705 | 1.666 |
| | 11-09-81 | 44859 | 12.363 | -- | -- | 0.721 | 1.671 |
| | 12-09-81 | 44860 | 12.344 | -- | -- | 0.728 | 1.655 |
| | 13-09-81 | 44861 | 12.352 | -- | -- | 0.728 | 1.692 |
| | 12-07-85 | 46259 | 12.287 | 0.857 | 0.154 | 1.075 | 1.549 |
| | 13-07-85 | 46260 | 12.249 | 0.851 | 0.121 | 0.821 | 2.090 |
| T CrA | 12-07-85 | 46259 | 13.902 | 1.128 | 0.541 | 0.810 | 1.408 |
| | 13-07-85 | 46260 | 13.861 | 1.078 | 0.350 | 0.726 | 1.569 |
| WW Vul | 03-09-81 | 44851 | 10.569 | -- | -- | 0.258 | 0.544 |
| | 05-09-81 | 44853 | 10.527 | -- | -- | 0.228 | 0.505 |
| | 06-09-81 | 44854 | 10.719 | -- | -- | 0.182 | 0.677 |
| | 10-09-81 | 44858 | 10.883 | -- | -- | 0.308 | 0.701 |
| | 10-09-81 | 44858 | 10.865 | -- | -- | 0.263 | 0.619 |
| | 11-09-81 | 44859 | 10.943 | -- | -- | 0.355 | 0.658 |
| | 12-09-81 | 44860 | 10.547 | -- | -- | 0.228 | 0.513 |
| | 13-09-81 | 44861 | 10.476 | -- | -- | 0.210 | 0.515 |

Table 4. Photometry of programme stars in the ESO/SAAO JHKLM system

| Star | Date | JD-2400000 | J | H | K | L | M | Remarks |
|------------|----------|------------|-------|------|------|-------|-------|---------|
| UX Ori | 09-11-79 | 44187 | 8.93 | 8.61 | 7.64 | 6.61 | -- | |
| | 09-11-79 | 44187 | 9.03 | 8.57 | 7.66 | 6.58 | -- | |
| | 09-11-79 | 44187 | 8.91 | 8.57 | 7.62 | 6.63 | -- | |
| | 10-11-79 | 44188 | 9.46 | 8.55 | 7.79 | 6.50 | 5.75: | |
| | 20-09-80 | 44503 | 9.26 | 8.30 | 7.36 | 6.17 | -- | |
| | 26-09-80 | 44509 | 9.12 | 8.28 | 7.35 | 6.24 | -- | |
| | 14-01-81 | 44619.528 | 9.36 | 8.41 | 7.40 | 6.19 | 5.82 | |
| | 15-01-81 | 44620.566 | 9.32 | 8.40 | 7.38 | 6.16 | 5.43 | |
| | 16-01-81 | 44621.563 | 9.06 | 8.31 | 7.36 | 6.10 | 5.51 | |
| | 24-02-86 | 46486 | 9.44 | 9.11 | 9.02 | 8.46 | -- | |
| | 26-02-86 | 46488 | 8.03 | 7.43 | 6.71 | 5.61 | 5.32 | |
| | 04-02-88 | 47196 | 8.87 | 8.14 | 7.29 | 6.02: | -- | |
| V346 Ori | 14-01-81 | 44619.542 | 9.84 | 9.01 | 8.23 | 7.27 | 6.46 | |
| | 15-01-81 | 44620.579 | 9.59 | 8.97 | 8.21 | 7.12 | 6.33 | |
| | 16-01-81 | 44621.578 | 9.46 | 8.97 | 8.21 | 7.11 | 6.53 | |
| HD 35929 | 28-01-97 | 50477.341 | 7.22 | 6.87 | 6.59 | 5.96 | 5.14 | |
| BD-06 1193 | 24-07-86 | 46636 | 9.91 | 9.18 | 8.52 | 7.29 | 7.34 | |
| | 26-07-86 | 46638 | 9.73 | 9.05 | 8.45 | 7.36 | 6.48 | |
| | 28-01-97 | 50477.350 | 9.06 | 8.40 | 7.84 | 6.98 | 5.78: | |
| HK Ori | 14-01-81 | 44619.616 | -- | 8.50 | 7.40 | -- | 5.07 | |
| | 15-01-81 | 44620.619 | 9.59 | 8.53 | 7.58 | 5.78 | 5.28 | |
| | 16-01-81 | 44621.588 | 9.46 | 8.47 | 7.40 | 5.75 | 5.10 | |
| RY Ori | 25-07-86 | 46637 | 9.91 | 9.18 | 8.52 | 7.29 | 7.34 | |
| | 27-07-86 | 46639 | 9.73 | 9.05 | 8.45 | 7.36 | 6.48 | |
| | 03-02-97 | 50483.389 | 9.72 | 8.95 | 8.32 | 7.48 | -- | |
| IX Ori | 28-01-97 | 50477.380 | 10.48 | 9.36 | 8.56 | 7.45 | -- | |
| V372 Ori | 14-01-81 | 44619.553 | 7.35 | 7.05 | 6.58 | 5.45 | 5.02 | |
| | 15-01-81 | 44620.636 | 7.35 | 7.08 | 6.60 | 5.48 | 4.87 | |
| | 16-01-81 | 44621.503 | 7.23 | 7.06 | 6.56 | 5.51 | 4.83 | |
| YZ Ori | 29-01-97 | 50478.390 | 7.29 | 6.95 | 6.47 | 5.49 | -- | |
| HD 36939 | 15-01-81 | 44620.742 | 8.92 | 8.87 | 8.82 | 8.85 | -- | |
| | 16-01-81 | 44621.529 | 8.96 | 8.94 | 8.92 | 8.37 | -- | |
| | 29-01-97 | 50478.371 | 7.29 | 6.95 | 6.47 | 5.49 | -- | |
| BD-05 1306 | 15-01-81 | 44620.749 | 8.51 | 8.00 | 7.45 | 6.41 | 5.70 | |
| | 16-01-81 | 44621.521 | 8.59 | 8.05 | 7.51 | 6.40 | 5.82 | |
| KS Ori | 15-01-81 | 44620.737 | 9.44 | 9.13 | 9.23 | 8.78 | -- | |
| LZ Ori | 14-01-81 | 44619.732 | 8.93 | -- | 8.43 | 8.39 | 7.28 | |
| | 15-01-81 | 44620.557 | 8.76 | 8.57 | 8.42 | 8.08 | 7.52 | |
| | 16-01-81 | 44621.597 | 8.75 | 8.57 | 8.42 | 8.12 | -- | |
| NV Ori | 24-02-86 | 46486.264 | 8.94 | 8.38 | 7.73 | 6.60 | 6.52 | |
| | 26-02-86 | 46488.268 | 8.99 | 8.39 | 7.72 | 6.49 | 6.64 | |
| V361 Ori | 14-01-81 | 44619.565 | 8.02 | 7.74 | 7.60 | 7.03 | 6.52 | |
| | 15-01-81 | 44620.647 | 7.87 | 7.76 | 7.60 | 6.99 | 6.48 | |
| | 16-01-81 | 44621.512 | 7.80 | 7.69 | 7.56 | 6.97 | 6.68 | |

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|----------|----------|-----------|-------|-------|-------|-------|-------|
| T Ori | 09-11-79 | 44187 | 8.13 | 7.52 | 6.40 | 5.55 | -- |
| | 10-09-79 | 44188 | 8.40 | 7.53 | 6.40 | 5.31 | 4.83 |
| | 20-09-80 | 44503 | 8.43 | 7.35 | 6.31 | 5.05 | 4.53 |
| | 26-09-80 | 44509 | 8.52 | 7.38 | 6.31 | 5.11 | 4.67 |
| | 14-01-81 | 44619.706 | 8.78 | 7.59 | 6.45 | 5.17 | 4.86 |
| | 15-01-81 | 44620.637 | 8.71 | 7.54 | 6.43 | 5.14 | 4.78 |
| | 16-01-81 | 44621.556 | 8.48 | 7.58 | 6.44 | 5.17 | 4.76 |
| V380 Ori | 09-11-79 | 44187 | 7.85 | 7.31 | 6.22 | 5.05 | -- |
| | 10-11-79 | 44188 | 8.31 | 7.78 | 6.44 | 4.90 | 4.63 |
| | 20-09-80 | 44503 | 8.27 | 7.14 | 6.10 | 4.51 | 3.97 |
| | 26-09-80 | 44509 | 8.20 | 7.13 | 5.98 | 4.50 | 3.86 |
| | 13-01-81 | 44618.688 | 7.92 | 7.05 | 5.99 | 4.53 | 3.94 |
| | 15-01-81 | 44620.683 | 8.12 | 7.08 | 5.96 | 4.57 | 3.97 |
| | 16-01-81 | 44621.572 | 7.97 | 7.12 | 6.02 | 4.54 | 4.06 |
| BN Ori | 23-02-86 | 46485 | 8.74 | 8.41 | 8.33 | 9.77 | -- |
| | 25-02-86 | 46487 | 8.68 | 8.36 | 8.25 | 9.26 | -- |
| V586 Ori | 13-01-81 | 44618.697 | 9.04 | 8.57 | 7.86 | 6.58 | 5.78 |
| | 15-01-81 | 44620.703 | 9.14 | 8.58 | 7.80 | 6.56 | 5.76 |
| | 16-01-81 | 44621.658 | 9.13 | 8.54 | 7.82 | 6.67 | 6.38: |
| BF Ori | 09-11-79 | 44187 | 8.68 | 8.64 | 7.92 | 7.07 | -- |
| | 10-11-79 | 44188 | 9.08 | 8.64 | 8.87 | 7.51 | 6.21 |
| | 20-09-80 | 44503 | 9.22 | 8.56 | 7.79 | 6.63 | -- |
| | 26-09-80 | 44509 | 9.30 | 8.58 | 7.81 | 6.60 | -- |
| | 13-01-81 | 44618.708 | 9.06 | 8.46 | 7.72 | 6.55 | 5.92 |
| | 14-01-81 | 44619.742 | 9.06 | 8.51 | 7.84 | 6.67 | 5.91 |
| | 15-01-81 | 44620.694 | 9.15 | 8.46 | 7.69 | 6.53 | 6.11 |
| | 25-02-86 | 46487 | 9.34 | 8.75 | 7.99 | 6.69 | 6.21 |
| | 26-02-86 | 46488 | 9.23 | 8.68 | 7.95 | 6.61 | 6.56 |
| HD 37357 | 02-02-97 | 50482.342 | 8.52 | 8.12 | 7.56 | 6.66 | 6.17: |
| | 03-02-97 | 50483.319 | 8.50 | 8.11 | 7.53 | 6.58 | 6.09: |
| N3Sk81 | 29-01-97 | 50478.431 | 9.93 | 8.67 | 7.61 | 6.43 | 5.86: |
| HD 37411 | 01-02-97 | 50481.368 | 9.08 | 8.34 | 7.55 | 6.45 | 5.92: |
| N3Sk83 | 01-02-97 | 50481.387 | 9.64 | 6.87 | 5.16 | 3.44 | 2.50: |
| V599 Ori | 28-01-97 | 50477.420 | 9.81 | 8.59 | 7.60 | 6.44 | 5.80: |
| V350 Ori | 03-02-87 | 46829.635 | 9.73 | 8.98 | 8.13 | 7.07 | -- |
| | 04-02-87 | 46830.635 | 9.75 | 8.95 | 8.12 | 6.99 | -- |
| | 05-02-87 | 46831.635 | 9.76 | 8.97 | 8.15 | 6.83 | -- |
| KMS 82 | 02-02-97 | 50482.361 | 10.13 | 8.84 | 7.96 | 7.20 | -- |
| | 03-02-97 | 50483.350 | 9.86 | 8.76 | 7.90 | 6.76 | 6.78: |
| KMS 108 | 01-01-97 | 50481.408 | 10.00 | 9.90 | 9.74 | 9.0:: | -- |
| HD 37806 | 13-01-81 | 44618.721 | 7.22 | 6.55 | 5.67 | 4.63 | 3.77 |
| | 16-01-81 | 44621.674 | 7.33 | 6.64 | 5.71 | 4.39 | 3.90 |
| KMS 118 | 03-02-97 | 50483.370 | 12.97 | 12.58 | 12.20 | -- | -- |
| V351 Ori | 14-09-95 | 49975.400 | -- | 7.41 | 6.70 | 5.82 | 5.3 |
| | 16-09-95 | 49977.424 | 7.99 | 7.48 | 6.78 | 5.96 | -- |
| | 18-09-95 | 49979.374 | 8.02 | 7.49 | 6.82 | 5.86 | -- |
| | 03-02-97 | 50483.306 | 8.04 | 7.51 | 6.82 | 5.68 | 5.25: |

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|------------|----------|-----------|-------|--------|--------|-------|-------|
| HD 250550 | 15-01-81 | 44620.627 | 8.56 | 7.71 | 6.83 | 5.66 | 5.26 |
| | 16-01-81 | 44621.666 | 8.64 | 7.76 | 6.82 | 5.63 | 5.77: |
| LkHa 339 | 01-02-97 | 50481.442 | 11.40 | 10.58 | 9.70 | 8.28 | -- |
| HD 45677 | 13-01-81 | 44618.729 | 7.65 | 6.69 | 4.80 | 2.16 | 1.21 |
| | 16-01-81 | 44621.721 | 7.58 | 6.74 | 4.81 | 2.19 | 1.28 |
| LkHa 215 | 15-01-81 | 44620.712 | 8.65 | 7.97 | 7.11 | 5.92 | 5.47 |
| | 16-01-81 | 44621.783 | 8.80 | 8.00 | 7.33 | 5.94 | 5.44: |
| HD 259431 | 15-01-81 | 44620.718 | 7.51 | 6.74 | 5.76 | 4.31 | 3.68 |
| | 16-01-81 | 44621.690 | 7.54 | 6.78 | 5.78 | 4.35 | 3.78 |
| R Mon | 15-01-81 | 44620.726 | 9.56 | 8.03 | 6.12 | 3.50 | 2.52 |
| | 16-01-81 | 44621.698 | 9.54 | 7.97 | 6.07 | 3.41 | 2.50 |
| V590 Mon | 03-02-97 | 50483.427 | 11.77 | 10.68 | 9.51 | 7.74 | 6.66: |
| HD 50138 | 13-01-81 | 44618.754 | 5.87 | 5.14 | 4.21 | 2.80 | 2.18 |
| | 16-01-81 | 44621.730 | 5.83 | 5.14 | 4.20 | 2.81 | 2.20 |
| Z CMa | 13-01-81 | 44618.763 | 5.89 | 4.88 | 3.77 | 1.91 | 1.08 |
| | 14-01-81 | 44619.774 | 5.86 | 4.86 | 3.76 | 1.87 | 1.10 |
| | 15-01-81 | 44620.940 | 5.81 | 4.88 | 3.76 | 1.90 | 1.06 |
| | 03-02-87 | 46830 | 5.83 | 4.75 | 3.65 | 1.64 | 0.92 |
| | 04-02-87 | 46831 | 5.83 | 4.73 | 3.64 | 1.64 | 0.92 |
| | 05-02-87 | 46832 | 5.82 | 4.73 | 3.64 | 1.64 | 0.89 |
| HD 53367 | 13-01-81 | 44618.775 | 5.73 | 5.47 | 5.22 | 4.79 | 4.64 |
| | 14-01-81 | 44619.786 | 5.70 | 5.48 | 5.19 | 4.74 | 4.66 |
| | 16-01-81 | 44621.736 | 5.78 | 5.48 | 5.21 | 4.78 | 4.59 |
| NX Pup | 24-02-86 | 46486 | 8.32 | 7.01 | 5.82 | 4.17 | 3.59 |
| | 25-02-86 | 46487 | 8.34 | 7.03 | 5.83 | 4.17 | 3.86 |
| | 26-02-86 | 46488 | 8.43 | 7.06 | 5.84 | 4.19 | 3.62 |
| HD 58647 | 28-01-97 | 50477.550 | 8.45 | 8.47 | 8.54 | 9.21: | -- |
| Hen 3-40 | 03-02-97 | 50483.473 | 12.35 | 12.04: | 12.02 | -- | -- |
| ESO 313-10 | 01-02-97 | 50481.547 | 11.61 | 9.91 | 8.60 | 7.04 | 5.96: |
| HD 76534 | 12-03-84 | 45772 | 7.65 | 7.57 | 7.49 | 7.08 | -- |
| | 13-03-84 | 45773 | 7.62 | 7.54 | 7.48 | 7.24 | -- |
| Herbst 28 | 01-02-97 | 50481.580 | 9.55 | 9.23 | 9.08 | 8.86: | -- |
| HD 87643 | 13-01-81 | 44618.819 | 6.11 | 5.01 | 3.77 | 2.08 | 1.38 |
| | 14-01-81 | 44619.822 | 6.05 | 5.02 | 3.75 | 2.03 | 1.38 |
| | 15-01-81 | 44620.911 | 6.17 | 5.01 | 3.76 | 2.07 | 1.37 |
| HD 89249 | 01-02-97 | 50481.601 | 6.70 | 5.99 | 5.68 | 5.37 | 4.89: |
| HR Car | 13-01-81 | 44618.838 | 6.06 | 5.65 | 5.29 | 4.75 | 4.38 |
| | 14-01-81 | 44619.832 | 6.15 | 5.68 | 5.30 | 4.75 | 4.57 |
| | 15-01-81 | 44621.029 | 6.19 | 5.73 | 5.29 | 4.74 | 4.54 |
| Hen 3-480 | 28-02-91 | 48315.680 | 11.20 | 11.53: | 11.69: | -- | -- |
| GG Car | 13-01-81 | 44618.860 | 6.90 | 6.10 | 5.09 | 3.66 | 3.03 |
| | 14-01-81 | 44619.863 | 6.85 | 5.95 | 4.96 | 3.63 | 3.05 |
| | 15-01-81 | 44620.950 | 6.87 | 6.04 | 5.02 | 3.59 | 2.97 |

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|------------|----------|-----------|--------|--------|--------|-------|--------|
| AG Car | 13-01-81 | 44618.868 | 4.89 | 4.53 | 4.20 | 3.71 | 3.56 |
| | 14-01-81 | 44619.871 | 4.77 | 4.44 | 4.07 | 3.61 | 3.46 |
| | 15-01-81 | 44620.956 | 4.89 | 4.51 | 4.16 | 3.70 | 3.54 |
| CD-76 486 | 13-01-81 | 44618.896 | 7.82 | 7.05 | 6.38 | 5.40 | 5.28 |
| | 14-01-81 | 44619.798 | 7.96 | -- | 6.34 | 5.37 | 5.33 |
| | 15-01-81 | 44621.010 | 7.89 | 7.05 | 6.33 | 5.39 | 5.09 |
| HD 97048 | 16-02-79 | 43921 | 7.15 | 6.45 | 5.73 | 4.66 | 4.49 |
| | 17-02-79 | 43922 | 6.88 | 6.40 | 5.68 | 4.69 | 4.39 |
| | 19-02-79 | 43924 | 7.08 | 6.43 | 5.68 | 4.61 | 4.35 |
| | 20-02-79 | 43925 | 7.16 | 6.51 | 5.75 | 4.68 | 4.39 |
| | 14-01-81 | 44619.813 | 6.84 | 6.85 | 6.15 | 4.87 | 4.62 |
| | 15-01-81 | 44621.016 | 7.32 | 6.85 | 6.13 | 4.84 | 4.56 |
| | 22-06-83 | 45508 | 7.45 | 6.91 | 6.23 | 4.79 | 4.67: |
| HD 97300 | 22-06-83 | 45508 | 7.75 | 7.42 | 7.19 | 6.95: | 5.6: |
| HD 100546 | 04-02-88 | 47196 | 6.34 | 5.75 | 5.09 | 4.02 | 3.75 |
| HD 101412 | 10-04-90 | 47992 | 8.70 | 8.24 | 7.25 | 5.81 | 5.08: |
| V644 Cen | 29-01-97 | 50478.619 | 9.74 | 9.34 | 9.04 | 8.48: | -- |
| HD 104237 | 04-02-88 | 47196 | 5.76 | 5.14 | 4.42 | 3.05 | 2.58 |
| DK Cha | 28-02-91 | 48315.866 | 9.92: | 7.49 | 5.59 | 3.17 | 2.51 |
| CD-48 7859 | 10-04-90 | 47992 | 10.04 | 9.19 | 7.58 | 4.62 | 3.65 |
| | 11-04-90 | 47992.809 | 10.01 | 9.17 | 7.61 | 4.64 | 3.66 |
| LSS 3027B | 25-02-86 | 46487 | 12.40: | 11.08: | 10.55: | -- | -- |
| | 20-07-86 | 46632 | 11.27 | 9.68 | 8.35 | 6.57 | 5.93: |
| | 20-07-86 | 46632 | 11.33 | 9.68 | 8.33 | 6.61 | 5.77: |
| HD 130437 | 03-02-97 | 50483.622 | 8.05 | 7.65 | 7.28 | 6.79 | 7.16:: |
| SS73 44 | 03-02-97 | 50483.613 | 10.18 | 8.96 | 7.93 | 6.55 | 5.67: |
| HR 5999 | 18-05-78 | 43647 | 5.78 | 5.17 | 4.55 | 3.13 | 2.71 |
| | 18-05-78 | 43647 | 5.76 | 5.17 | 4.49 | 3.12 | 2.69 |
| | 18-05-78 | 43647 | 5.70 | 5.14 | 4.48 | 3.18 | 2.70 |
| | 19-05-78 | 43648 | 5.77 | 4.94 | 4.34 | 3.02 | 2.52 |
| | 20-05-78 | 43649 | 5.63 | 5.14 | 4.49 | 3.02 | 2.56 |
| | 21-05-78 | 43650 | 5.57 | 4.99 | 4.40 | 3.03 | 2.49 |
| | 23-05-78 | 43652 | 5.64 | 5.06 | 4.39 | 2.83 | 2.49 |
| | 18-02-79 | 43923 | 5.79 | 5.17 | 4.44 | 3.28 | 2.75 |
| | 19-02-79 | 43924 | 5.66 | 5.14 | 4.43 | 3.38 | 2.88 |
| | 20-02-79 | 43925 | 5.66 | 5.09 | 4.36 | 3.27 | 2.73 |
| | 22-06-83 | 45508 | 5.89 | 5.15 | 4.28 | 2.88 | 2.61: |
| | 17-03-84 | 45777 | -- | -- | 4.48 | 2.97 | 2.48 |
| | 20-07-86 | 46632 | 6.08 | 5.30 | 4.50 | 3.13 | 2.66 |
| HR 6000 | 18-05-78 | 43647 | 6.61 | 6.76 | 6.87 | -- | -- |
| | 18-05-78 | 43647 | 6.66 | 6.79 | 6.85 | -- | -- |
| | 19-05-78 | 43648 | 6.93 | 6.59 | 6.83 | -- | -- |
| | 20-05-78 | 43649 | 6.66 | 6.74 | 6.91 | -- | -- |
| | 21-05-78 | 43650 | 6.46 | 6.56 | 6.80 | -- | -- |
| | 21-05-78 | 43650 | 6.52 | 6.56 | 6.80 | -- | -- |
| | 23-05-78 | 43652 | 6.53 | 6.67 | 6.73 | -- | -- |
| | 18-02-79 | 43923 | 6.61 | 6.62 | 6.62 | 6.66 | 6.51: |
| | 20-02-79 | 43925 | 6.60 | 6.54 | 6.61 | 6.62 | 6.14: |

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|-------------|----------|-----------|-------|------|-------|-------|--------|
| HD 147196 | 28-02-91 | 48315 | 6.62 | 6.65 | 6.50 | 6.37 | 6.36 |
| | 29-02-91 | 48316 | 6.58 | 6.53 | 6.47 | 6.27 | -- |
| HD 150193 | 31-07-85 | 46278.494 | 7.02 | 6.37 | 5.59 | 4.30 | 3.91 |
| AK Sco | 20-07-86 | 46632 | 7.86 | 7.25 | 6.60 | 5.38 | 4.98 |
| | 21-07-86 | 46633 | 7.78 | 7.20 | 6.58 | 5.41 | 5.07: |
| CD-42 11721 | 23-06-83 | 45509 | 7.12 | 5.79 | 4.37 | 2.37 | 1.77 |
| | 20-07-86 | 46632 | 7.08 | 5.76 | 4.39 | 2.36 | 1.70 |
| | 21-07-86 | 46633 | 7.06 | 5.75 | 4.37 | 2.35 | 1.75 |
| | 11-04-90 | 47993 | 7.18 | 5.90 | 4.45 | -- | 1.64 |
| KK Oph | 20-06-83 | 45506 | 9.25 | 7.49 | 5.96 | 4.02 | 3.43 |
| Wra 15-1651 | 28-02-91 | 48316.013 | -- | -- | 8.36: | 6.16 | 5.41 |
| Wra 15-1678 | 28-02-91 | 48315.998 | -- | -- | 7.02: | 6.26 | 6.72: |
| XX Oph | 12-05-78 | 43641 | 4.15 | 3.32 | 3.02 | 2.77 | 2.68 |
| HD 163296 | 09-03-80 | 44308.222 | 6.34 | 5.54 | 4.72 | 3.55 | 3.14 |
| | 20-06-83 | 45506 | 6.24 | 5.52 | 4.70 | 3.52 | 3.14 |
| | 21-07-86 | 46633 | 6.23 | 5.45 | 4.54 | 3.25 | 2.90 |
| | 22-07-86 | 46634 | 6.24 | 5.45 | 4.56 | 3.27 | 2.90 |
| LkHa 112 | 22-06-83 | 45508 | 9.17 | 8.91 | 8.55 | 7.7: | -- |
| LkHa 115 | 22-06-83 | 45508 | 10.6: | 9.7: | 9.0: | -- | -- |
| LkHa 118 | 22-06-83 | 45508 | 8.71 | 8.26 | 7.86 | 7.33: | -- |
| | 12-03-84 | 45772 | 8.76 | 8.26 | 7.87 | 7.35 | 6.69:: |
| | 31-07-85 | 46277.670 | 8.76 | 8.31 | 7.90 | 7.32 | -- |
| LkHa 119 | 22-06-83 | 45508 | 8.32 | 7.95 | 7.43 | 6.50: | 6.50:: |
| | 13-03-84 | 45773 | 9.83 | 9.44 | 9.08 | -- | -- |
| | 31-07-85 | 46277.678 | 9.91 | 9.57 | 9.26 | -- | -- |
| AS 310 | 18-05-78 | 43647 | 8.12 | 7.24 | 6.41 | 5.22 | 4.23 |
| | 19-05-78 | 43648 | 7.89 | 7.70 | 6.67 | 4.63 | 4.20 |
| | 21-05-78 | 43650 | 7.90 | 6.95 | 6.26 | 4.90 | 4.33 |
| | 15-08-79 | 44101 | 8.25 | 7.17 | 6.22 | 5.04 | 4.50 |
| HD 176386 | 15-08-79 | 44101 | 6.93 | 6.77 | 6.73 | 6.58 | 6.58 |
| | 22-06-83 | 45508 | 6.87 | 6.76 | 6.68 | 6.56 | 6.13:: |
| | 31-07-85 | 46277.759 | 6.85 | 6.74 | 6.66 | 6.49 | 6.62 |
| TY CrA | 19-05-78 | 43648 | 7.73 | 7.12 | 6.91 | -- | -- |
| | 21-05-78 | 43650 | 7.57 | 6.99 | 6.86 | -- | -- |
| | 15-08-79 | 44101 | 7.57 | 7.05 | 6.72 | 6.25 | 6.27 |
| | 22-06-83 | 45508 | 7.51 | 6.97 | 6.66 | 6.01 | 5.85: |
| | 31-07-85 | 46277.733 | 7.48 | 6.97 | 6.68 | 6.11 | 6.16 |
| R CrA | 18-05-78 | 43647 | 7.47 | 5.70 | 4.02 | 1.92 | 1.37 |
| | 19-05-78 | 43648 | 7.79 | 5.84 | 3.90 | 2.00 | 1.28 |
| | 21-05-78 | 43650 | 7.31 | 5.61 | 3.91 | 1.77 | 1.07 |
| | 15-08-79 | 44101 | 7.28 | 5.27 | 3.47 | 1.56 | 0.93 |
| | 22-06-83 | 45508 | 7.22 | 5.09 | 3.35 | 1.34 | 0.84 |
| | 31-07-85 | 46277.792 | 7.56 | 5.37 | 3.64 | 1.61 | 1.09 |
| T CrA | 18-05-78 | 43647 | -- | 8.31 | 7.60 | 5.8: | 5.2: |
| | 19-05-78 | 43648 | 9.40 | 8.62 | 7.28 | 5.29 | 4.67 |

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|----------|-------|-------|------|------|------|------|
| 21-05-78 | 43650 | 9.00 | 8.59 | 7.15 | 5.13 | 4.4: |
| 15-08-79 | 44101 | 10.42 | 9.26 | -- | 5.89 | 4.99 |
